FIG. 1

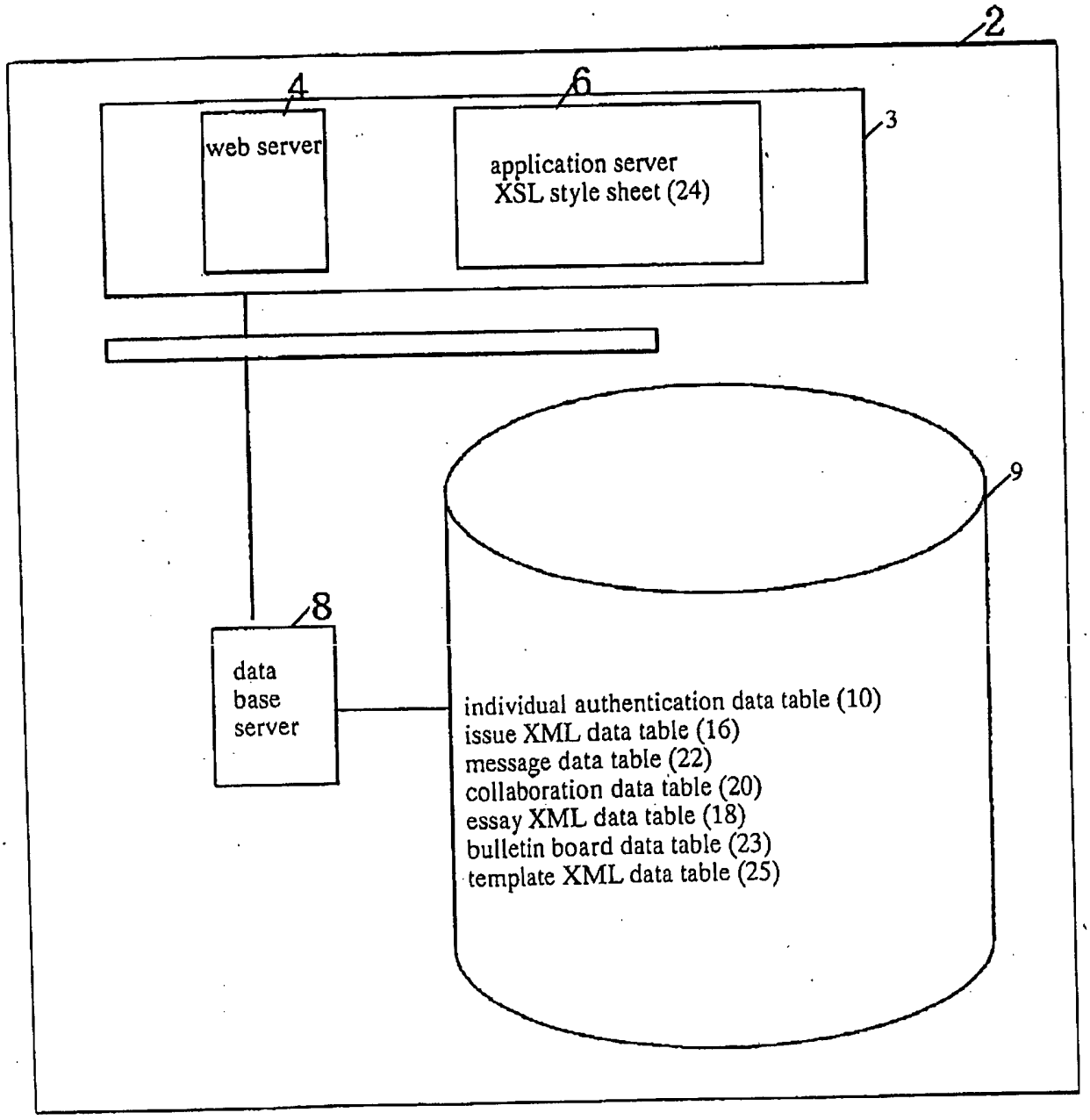

2
4
6
3
web server
application server
XSL style sheet (24)
9
8
data
base
server
individual authentication data table (10)
issue XML data table (16)
message data table (22)
collaboration data table (20)
essay XML data table (18)
bulletin board data table (23)
template XML data table (25)

FIG. 2

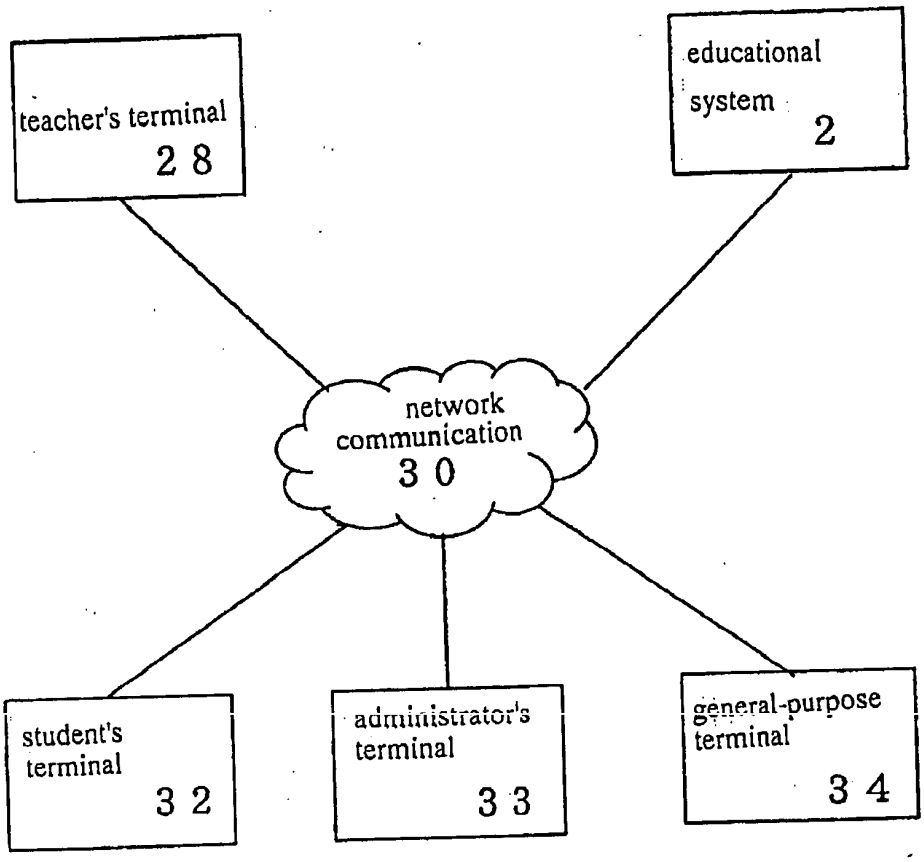

teacher's terminal
28
educational system
2
network communication
30
student's terminal
32
administrator's terminal
33
general-purpose terminal
34

FIG. 3

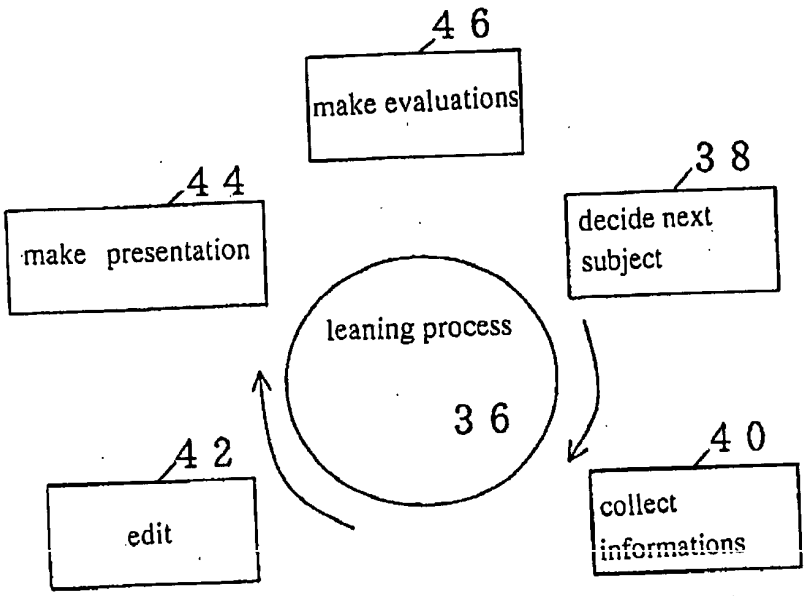

46
make evaluations
44
make presentation
38
decide next subject
leaning process
36
42
edit
40
collect informations

FIG. 4

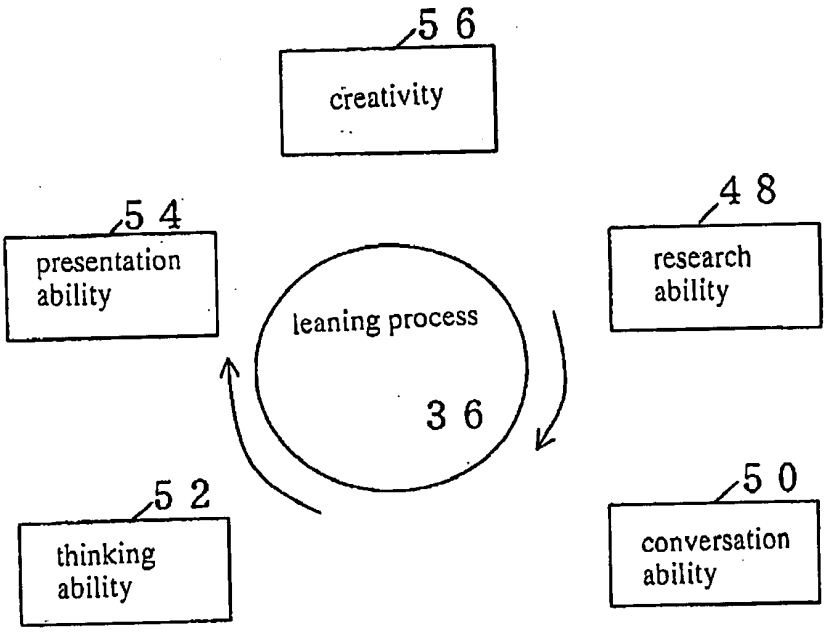

56
creativity
54
presentation ability
48
research ability
leaning process
36
52
thinking ability
50
conversation ability

FIG. 5

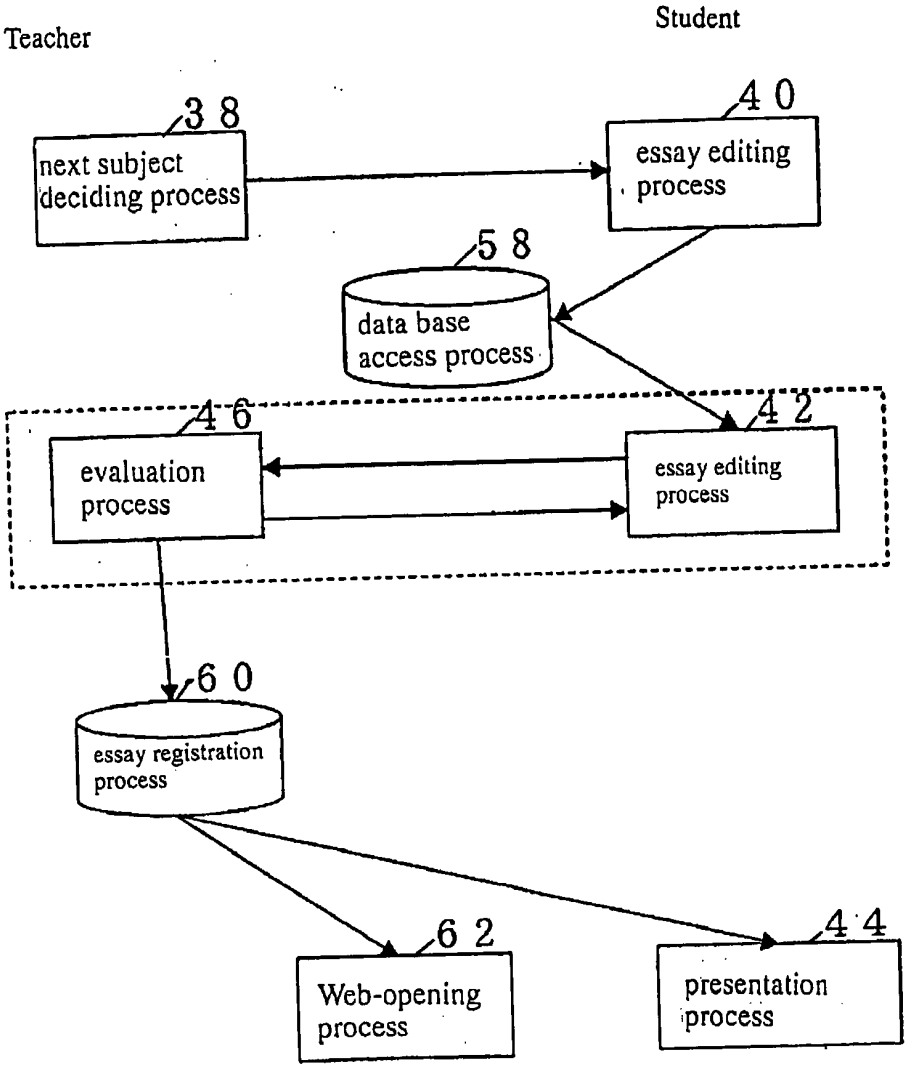

Teacher
Student
38
next subject deciding process
40
essay editing process
58
data base access process
46
evaluation process
42
essay editing process
60
essay registration process
62
Web-opening process
44
presentation process

FIG. 6

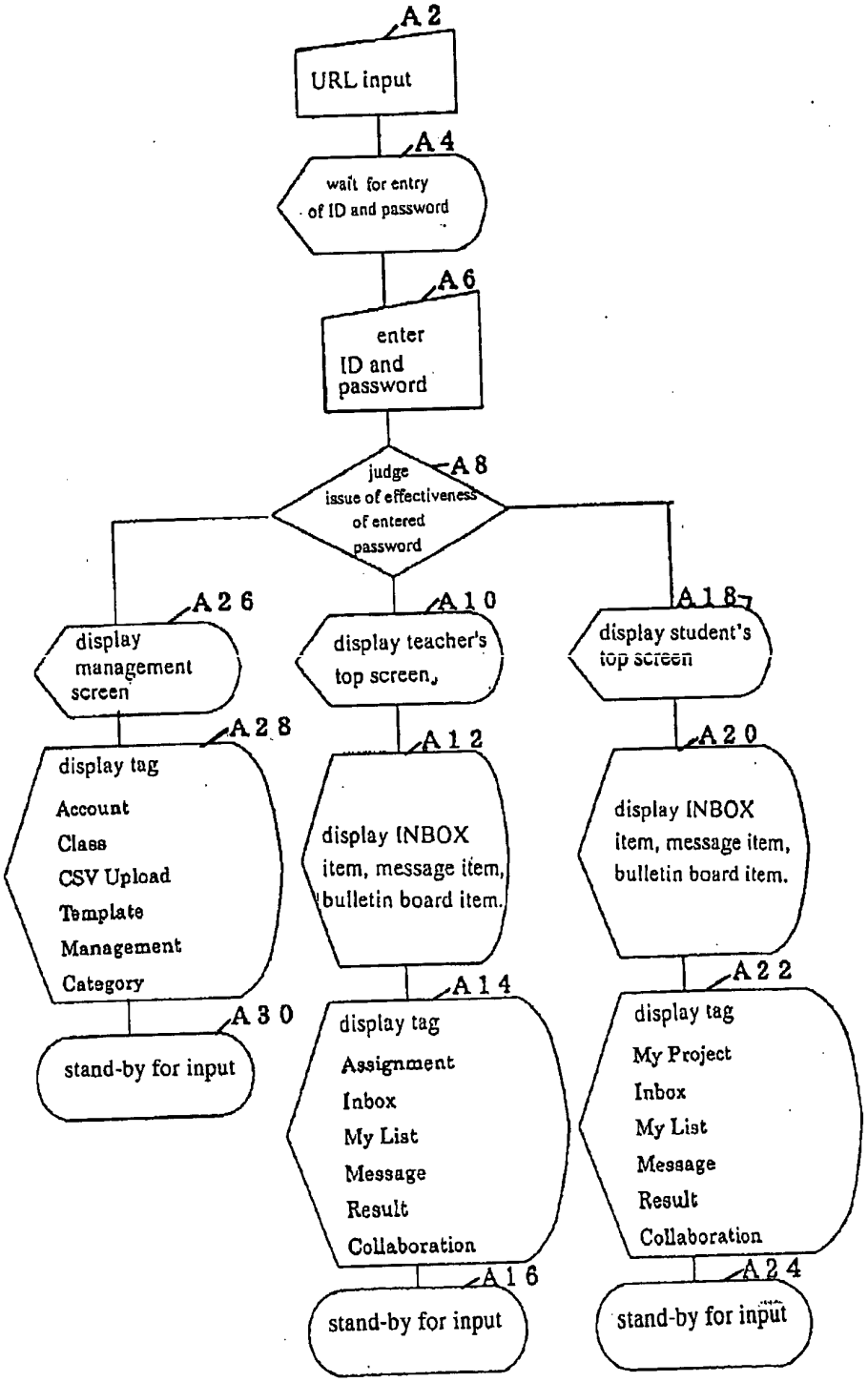

A2
URL input
A4
wait for entry of ID and password
A6
enter ID and password
A8
judge issue of effectiveness of entered password
A26
display management screen
A10
display teacher's top screen
A18
display student's top screen
A28
display tag
Account
Class
CSV Upload
Template
Management
Category
A12
display INBOX item, message item, bulletin board item.
A20
display INBOX item, message item, bulletin board item.
A30
stand-by for input
A14
display tag
Assignment
Inbox
My List
Message
Result
Collaboration
A22
display tag
My Project
Inbox
My List
Message
Result
Collaboration
A16
stand-by for input
A24
stand-by for input

FIG. 7

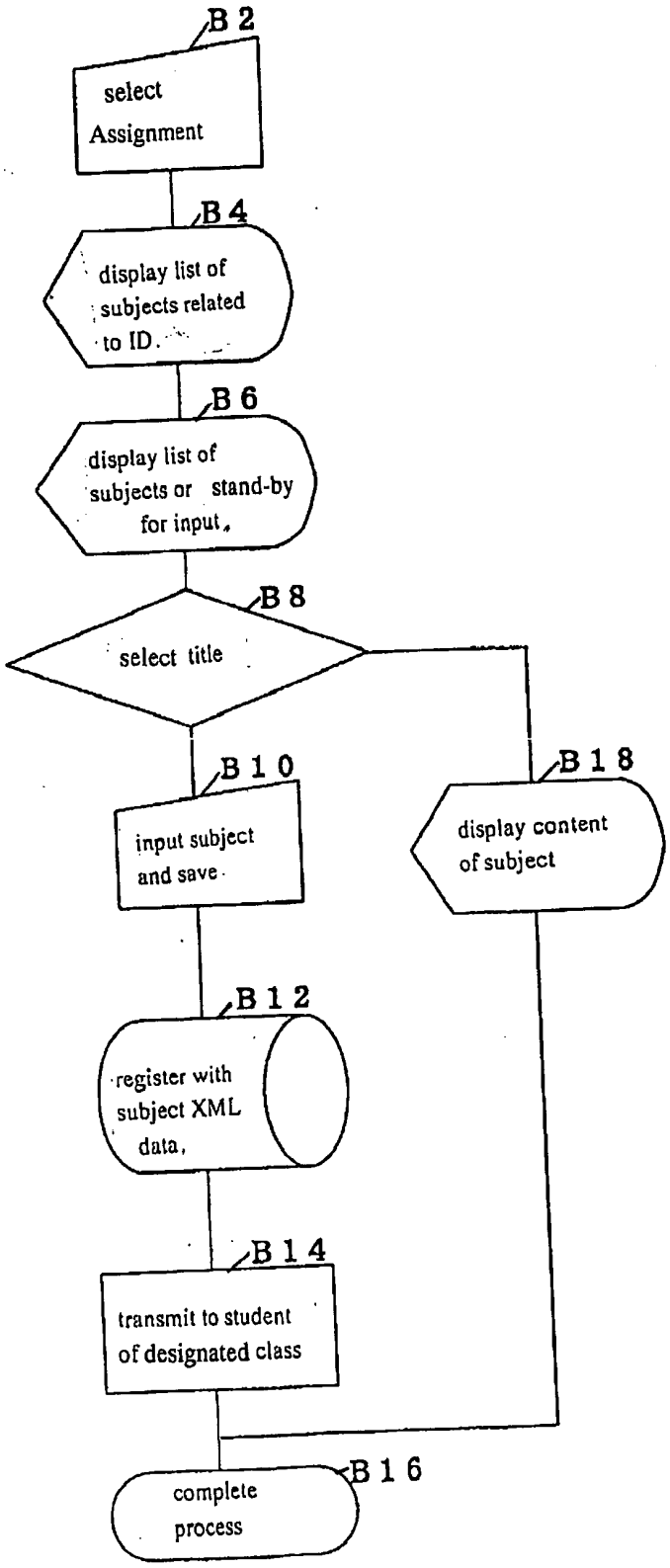

B 2
select Assignment
B 4
display list of subjects related to ID.
B 6
display list of subjects or stand-by for input.
B 8
select title
B 10
input subject and save
B 12
register with subject XML data.
B 14
transmit to student of designated class
B 16
complete process
B 18
display content of subject

FIG. 8

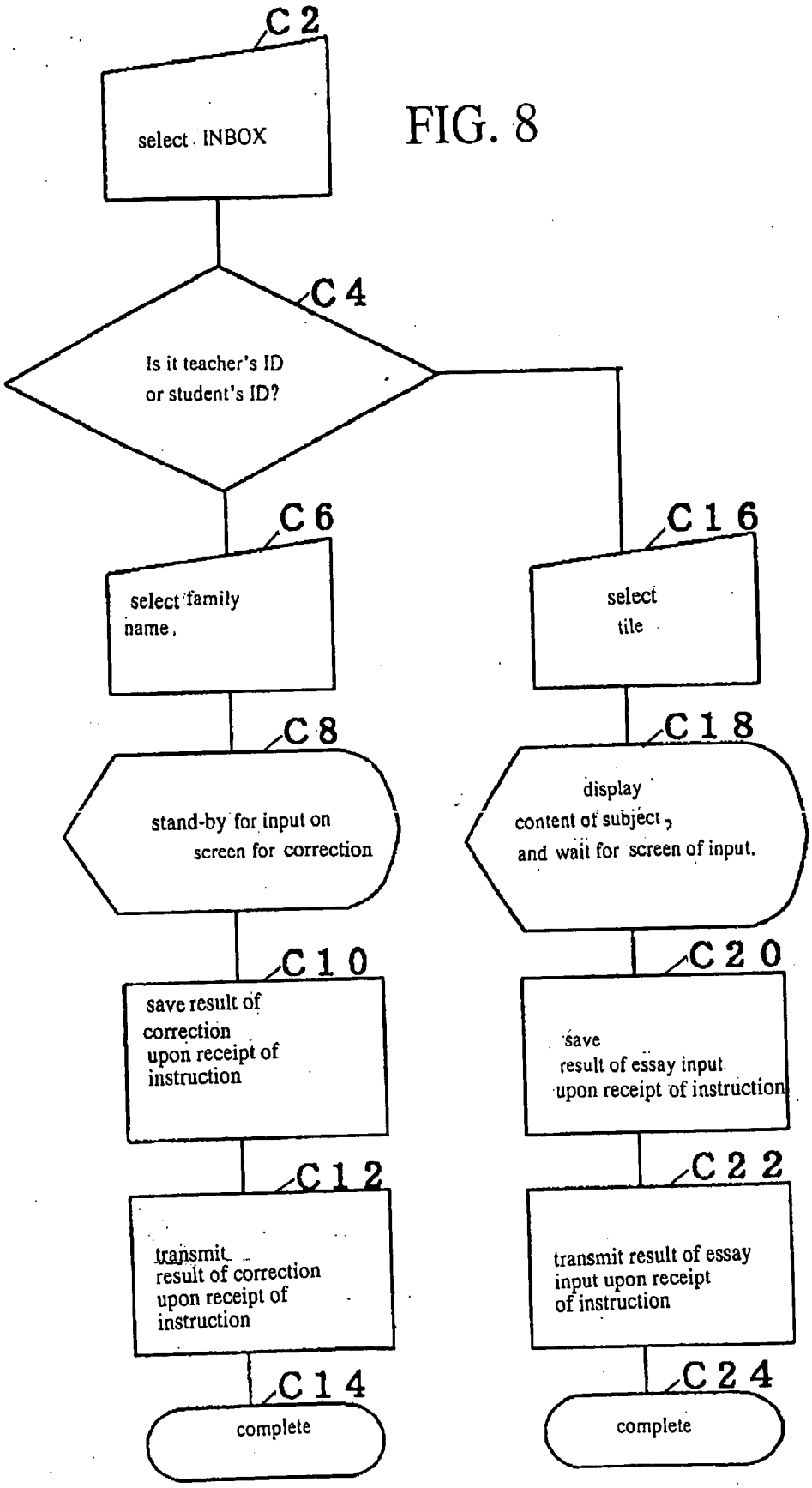

C2
select INBOX
C4
Is it teacher's ID or student's ID?
C6
select family name.
C8
stand-by for input on screen for correction
C10
save result of correction upon receipt of instruction
C12
transmit result of correction upon receipt of instruction
C14
complete
C16
select tile
C18
display content of subject, and wait for screen of input.
C20
save result of essay input upon receipt of instruction
C22
transmit result of essay input upon receipt of instruction
C24
complete

FIG. 9

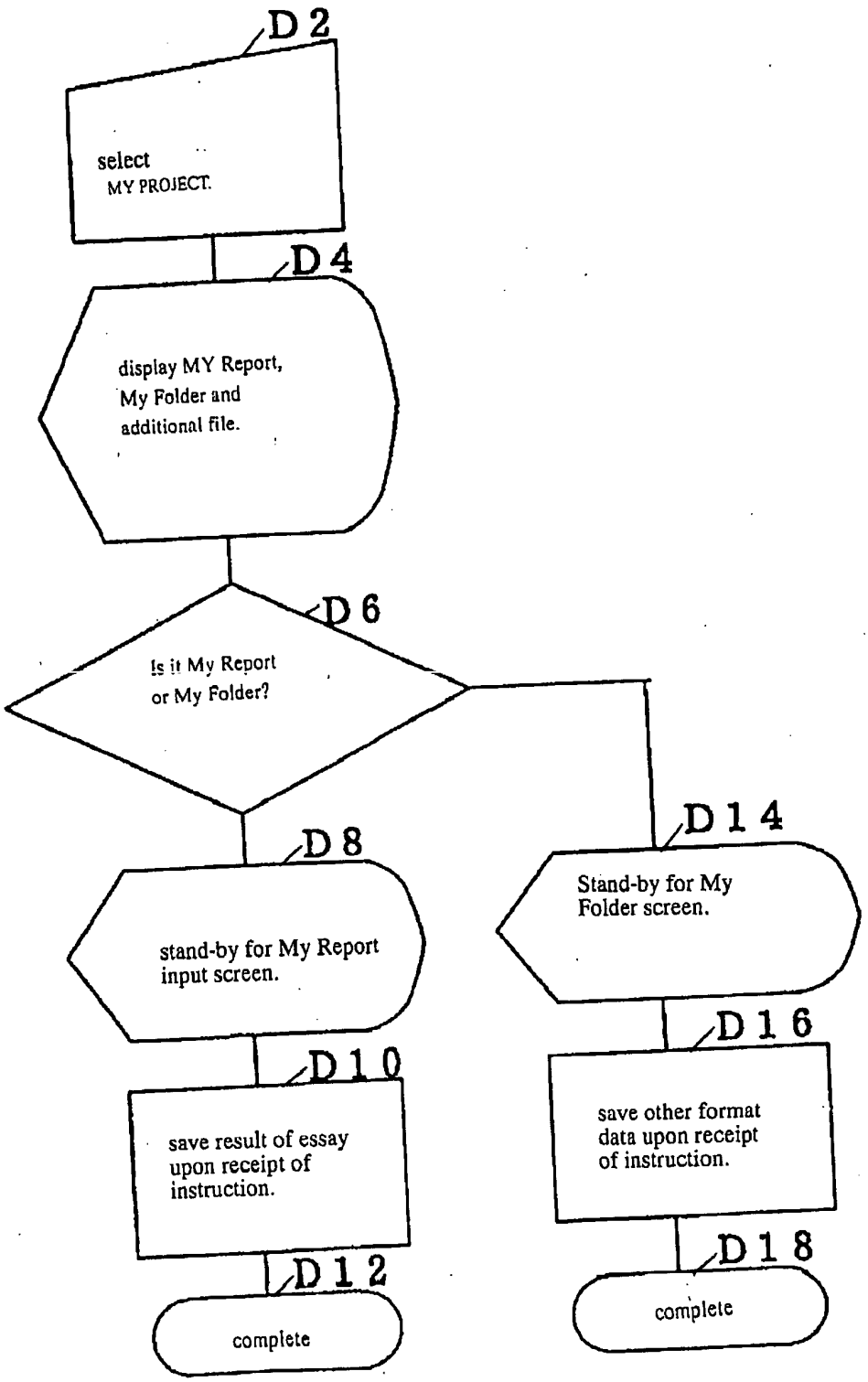

D2
select MY PROJECT.
D4
display MY Report, My Folder and additional file.
D6
Is it My Report or My Folder?
D8
stand-by for My Report input screen.
D10
save result of essay upon receipt of instruction.
D12
complete
D14
Stand-by for My Folder screen.
D16
save other format data upon receipt of instruction.
D18
complete

FIG. 10

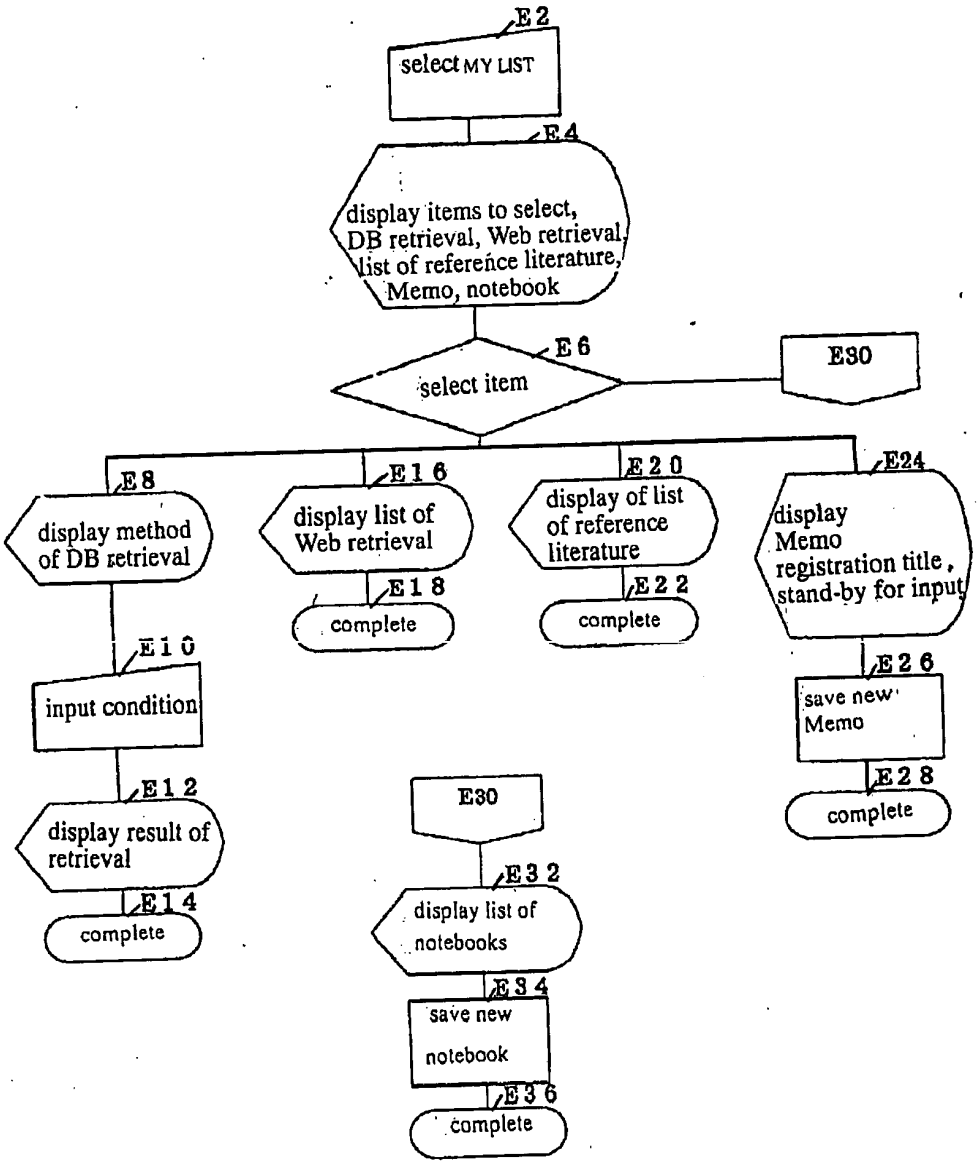

E2
select MY LIST
E4
display items to select, DB retrieval, Web retrieval, list of reference literature, Memo, notebook
E6
select item
E30
E8
display method of DB retrieval
E10
input condition
E12
display result of retrieval
E14
complete
E16
display list of Web retrieval
E18
complete
E20
display of list of reference literature
E22
complete
E24
display Memo registration title, stand-by for input
E26
save new Memo
E28
complete
E30
E32
display list of notebooks
E34
save new notebook
E36
complete

FIG. 11

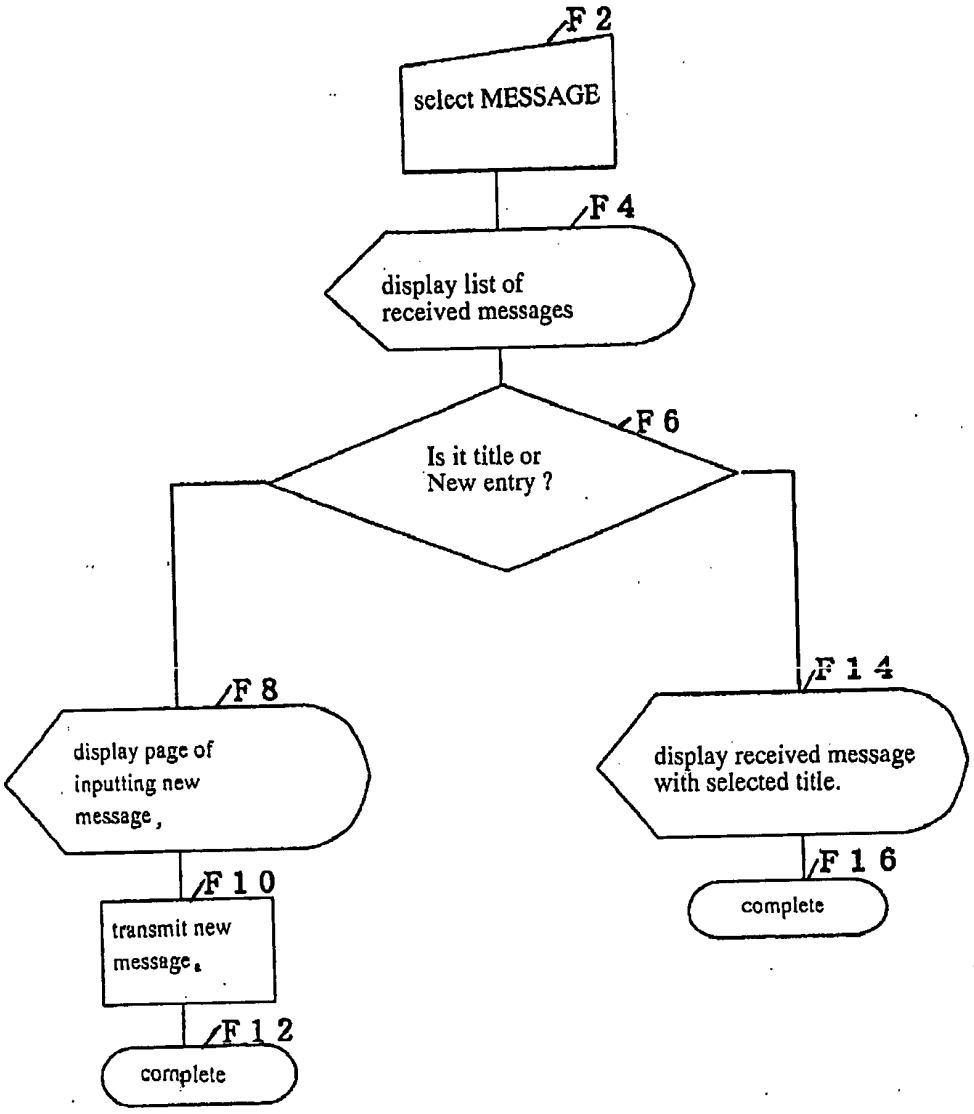

F 2
select MESSAGE
F 4
display list of received messages
F 6
Is it title or New entry ?
F 8
display page of inputting new message ,
F 10
transmit new message .
F 12
complete
F 14
display received message with selected title.
F 16
complete

FIG. 12

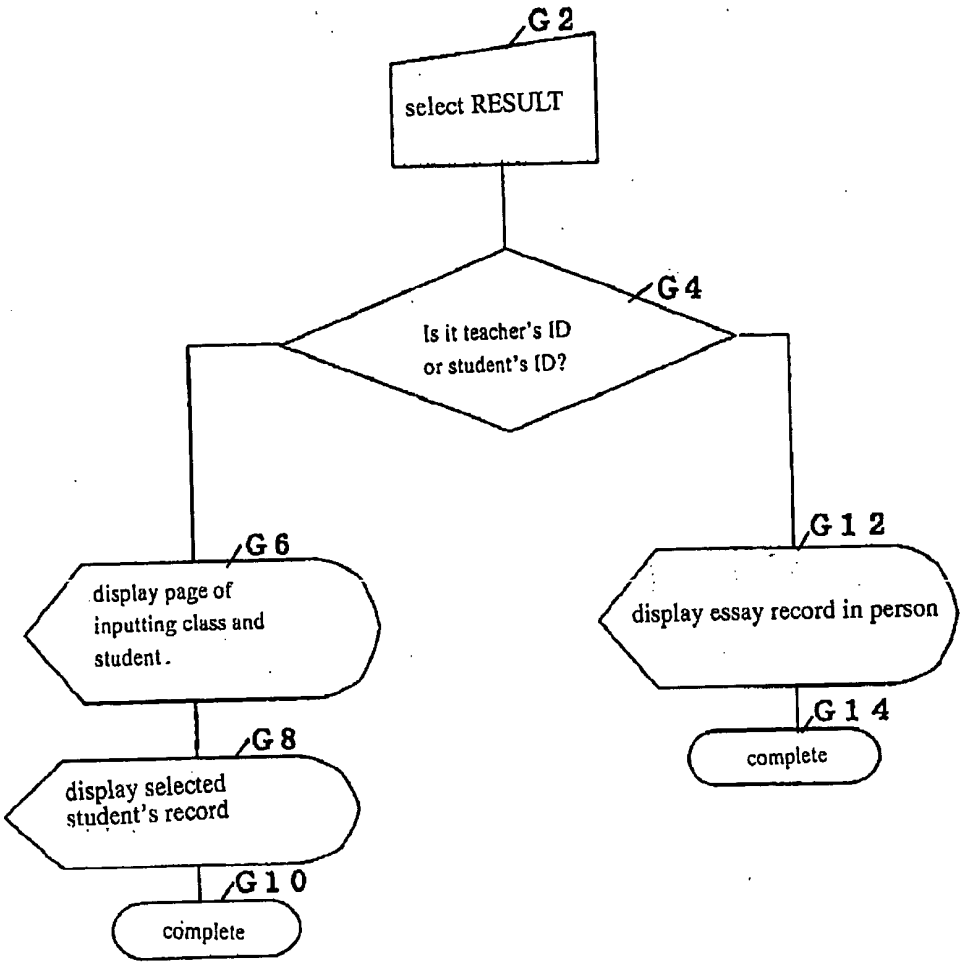

G2
select RESULT
G4
Is it teacher's ID or student's ID?
G6
display page of inputting class and student.
G8
display selected student's record
G10
complete
G12
display essay record in person
G14
complete

FIG.13

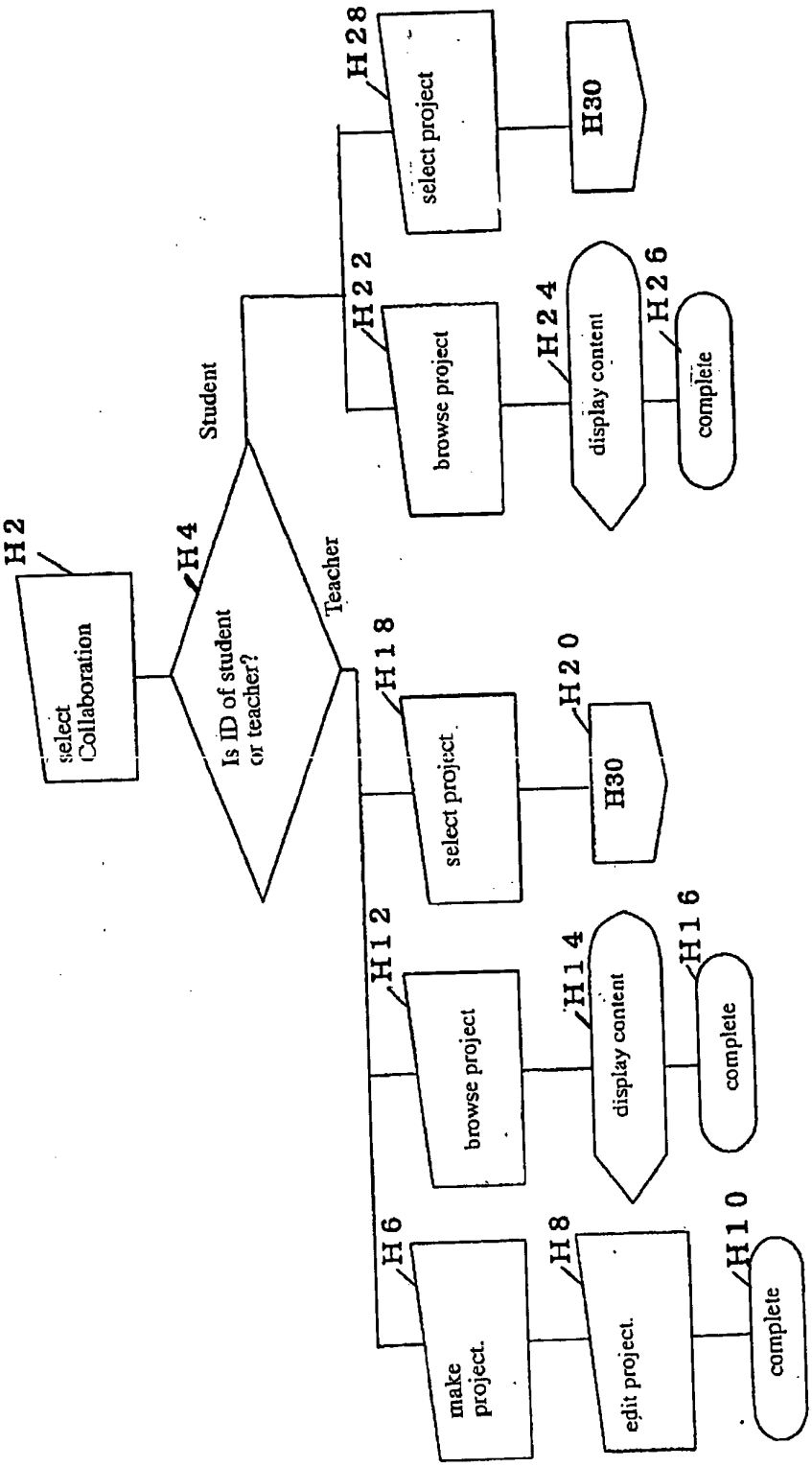

H2
select Collaboration
H4
Is ID of student or teacher?
Student
Teacher
H22
browse project
H24
display content
H26
complete
H28
select project
H30
H18
select project
H20
H30
H12
browse project
H14
display content
H16
complete
H6
make project.
H8
edit project.
H10
complete

FIG. 14

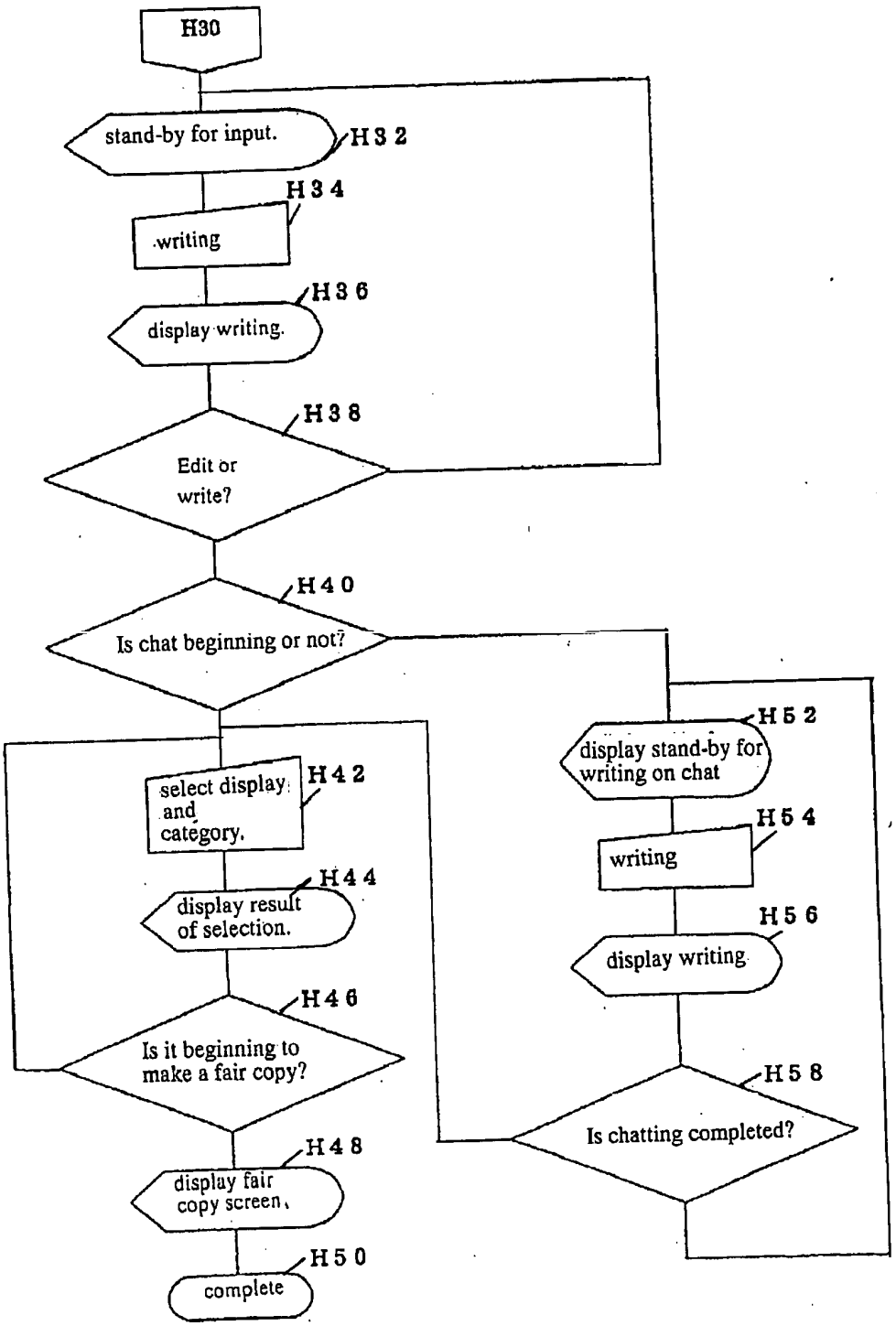

H30
stand-by for input.
H32
H34
writing
H36
display writing.
H38
Edit or write?
H40
Is chat beginning or not?
H42
select display and category.
H44
display result of selection.
H46
Is it beginning to make a fair copy?
H48
display fair copy screen.
H50
complete
H52
display stand-by for writing on chat
H54
writing
H56
display writing
H58
Is chatting completed?

FIG.15A

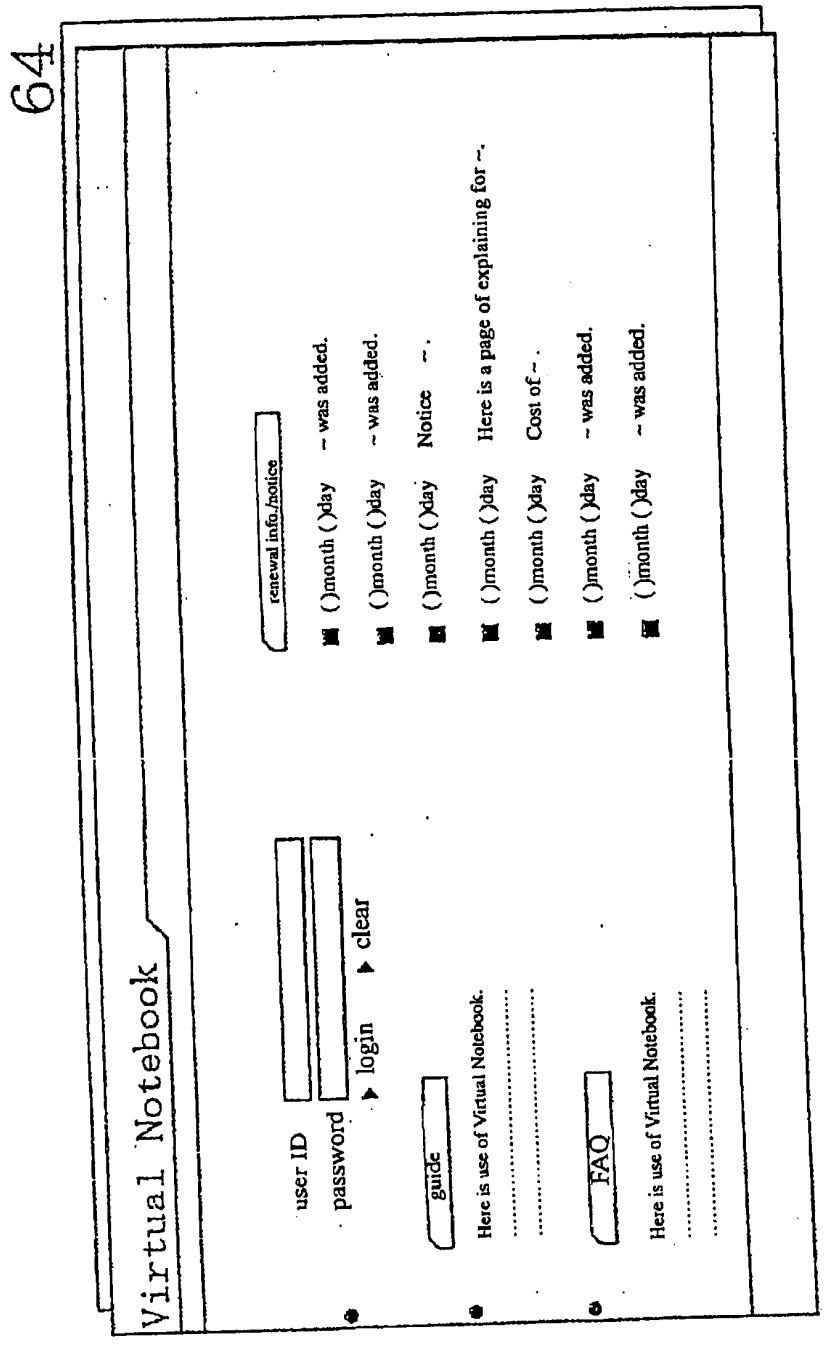

64
Virtual Notebook
user ID
password
login
clear
guide
Here is use of Virtual Notebook.
FAQ
Here is use of Virtual Notebook.
renewal info./notice
( )month ( )day ~ was added.
( )month ( )day ~ was added.
( )month ( )day Notice ~.
( )month ( )day Here is a page of explaining for ~.
( )month ( )day Cost of ~.
( )month ( )day ~ was added.
( )month ( )day ~ was added.

FIG.15B

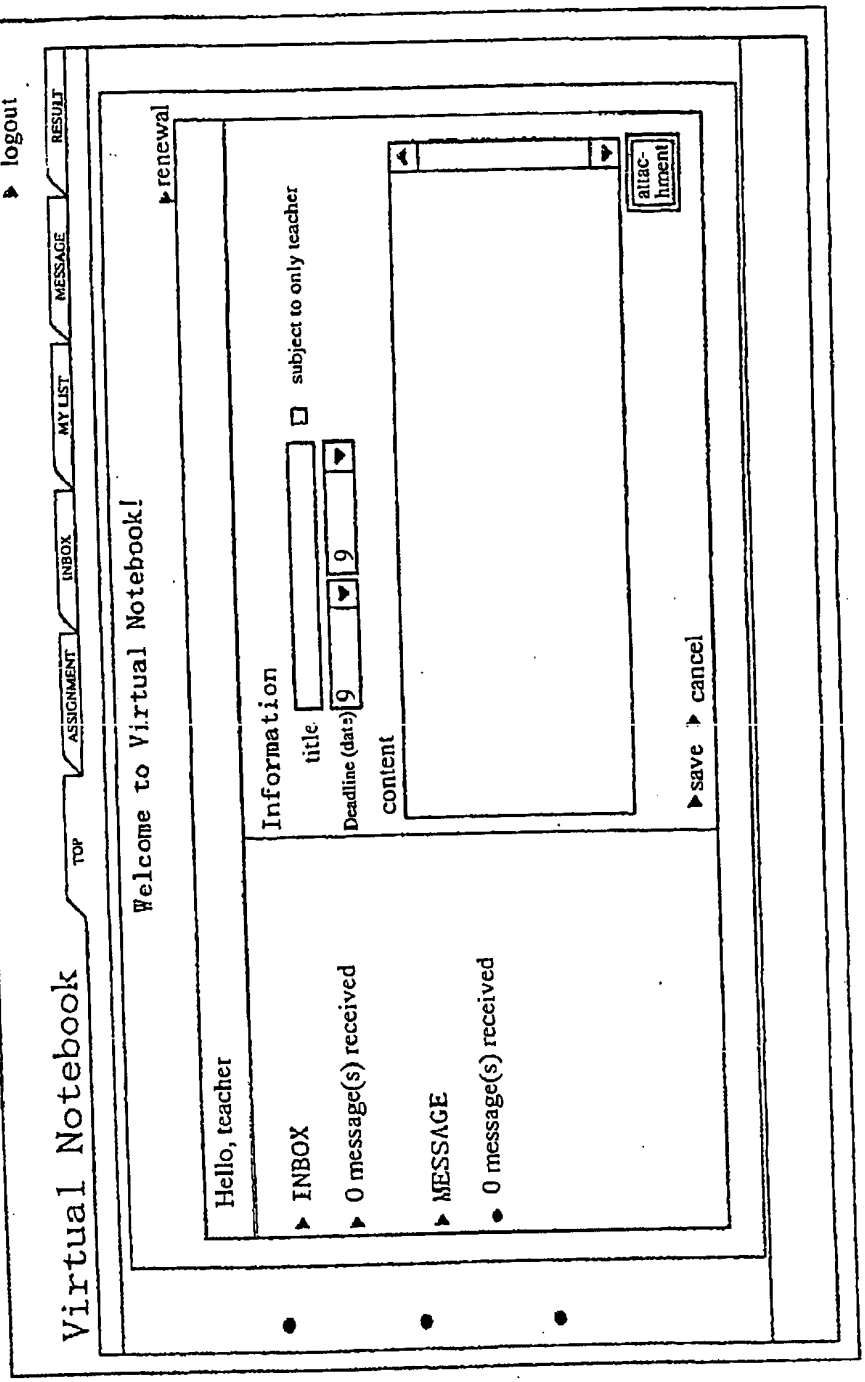

66
logout
Virtual Notebook
TOP
ASSIGNMENT
INBOX
MY LIST
MESSAGE
RESULT
renewal
Welcome to Virtual Notebook!
Hello, teacher
INBOX
0 message(s) received
MESSAGE
0 message(s) received
Information
title
subject to only teacher
Deadline (date)
content
attachment
save
cancel

FIG.16

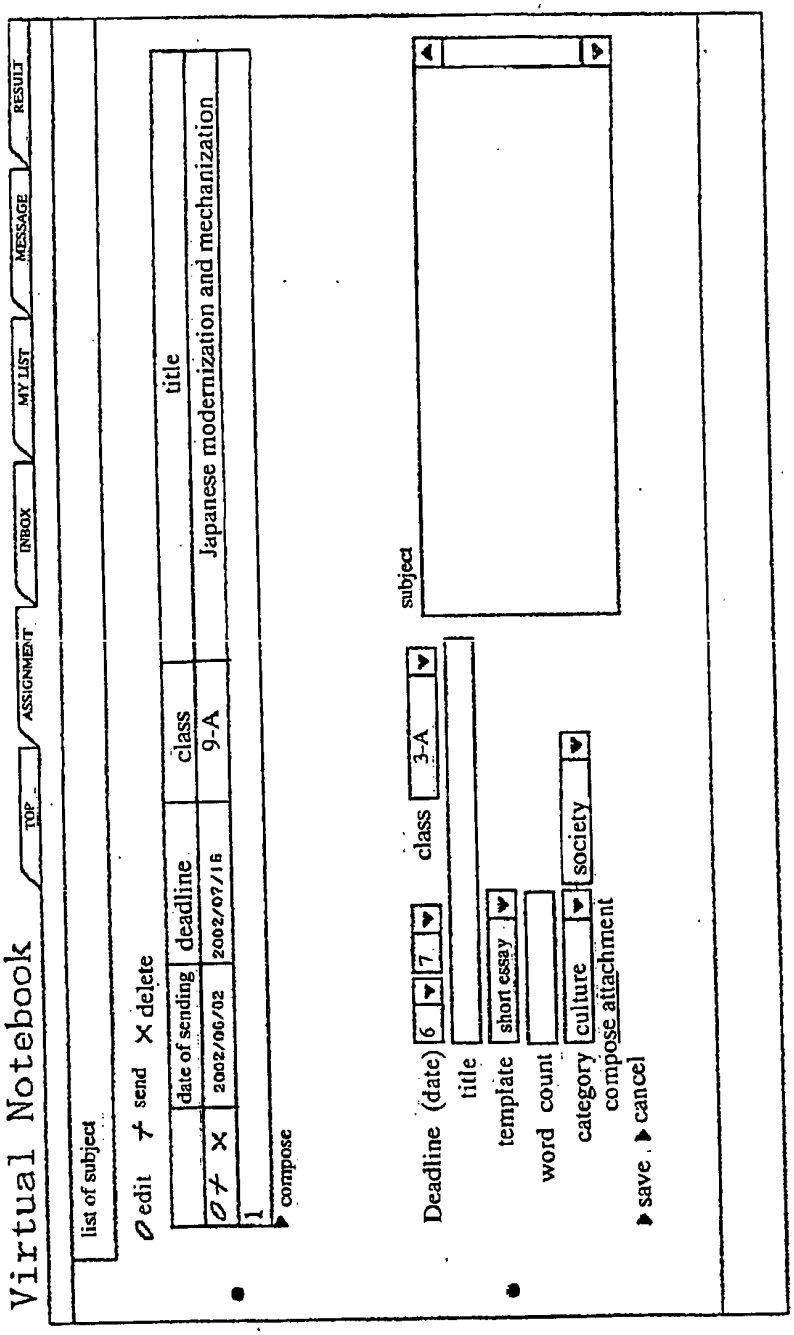

68
logout
Virtual Notebook
TOP
ASSIGNMENT
INBOX
MY LIST
MESSAGE
RESULT
list of subject
edit
send
delete
date of sending
deadline
class
title
2002/06/02
2002/07/15
9-A
Japanese modernization and mechanization
compose
Deadline (date)
6
7
class
3-A
subject
title
template
short essay
word count
category
culture
society
compose attachment
save
cancel

FIG.17

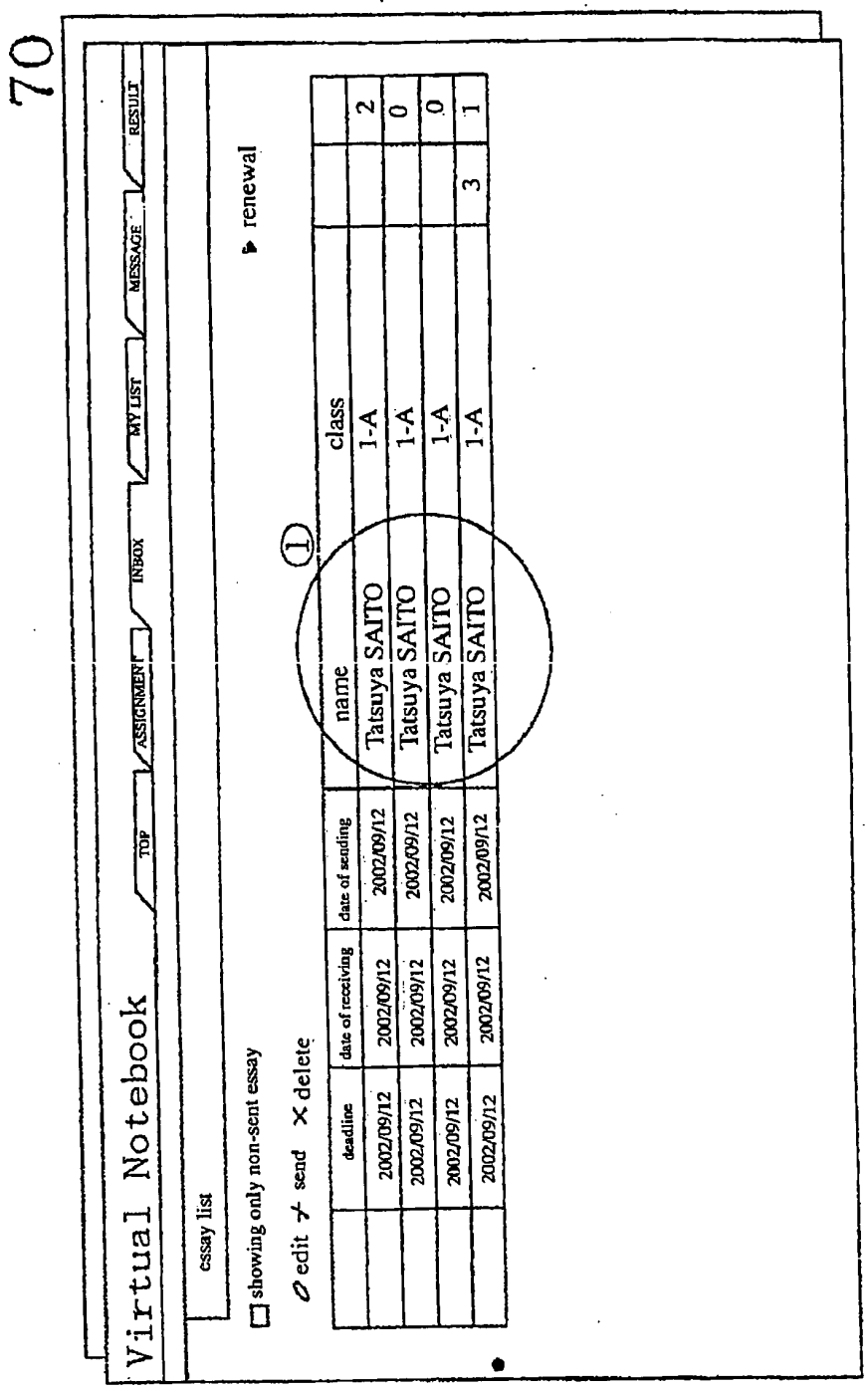

70
Virtual Notebook
TOP
ASSIGNMENT
INBOX
MY LIST
MESSAGE
RESULT
essay list
showing only non-sent essay
renewal
edit
send
delete
1
deadline
date of receiving
date of sending
name
class
2002/09/12
2002/09/12
2002/09/12
Tatsuya SAITO
1-A
2
0
0
1
3

FIG.18

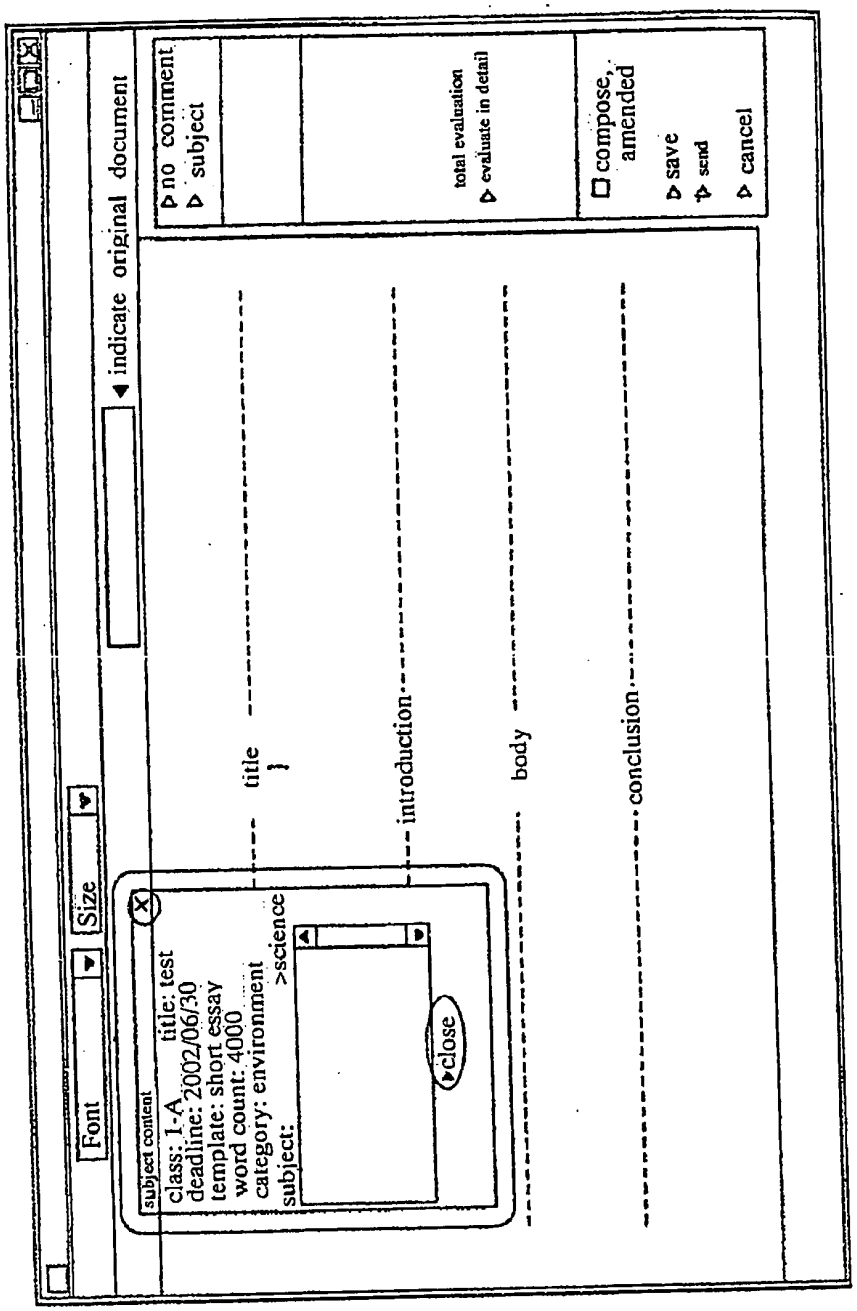

72
indicate original document
Font
Size
no comment
subject
total evaluation
evaluate in detail
compose, amended
save
send
cancel
subject content
class: 1-A
deadline: 2002/06/30
template: short essay
word count: 4000
category: environment
subject:
title: test
>science
close
title
introduction
body
conclusion

FIG.19

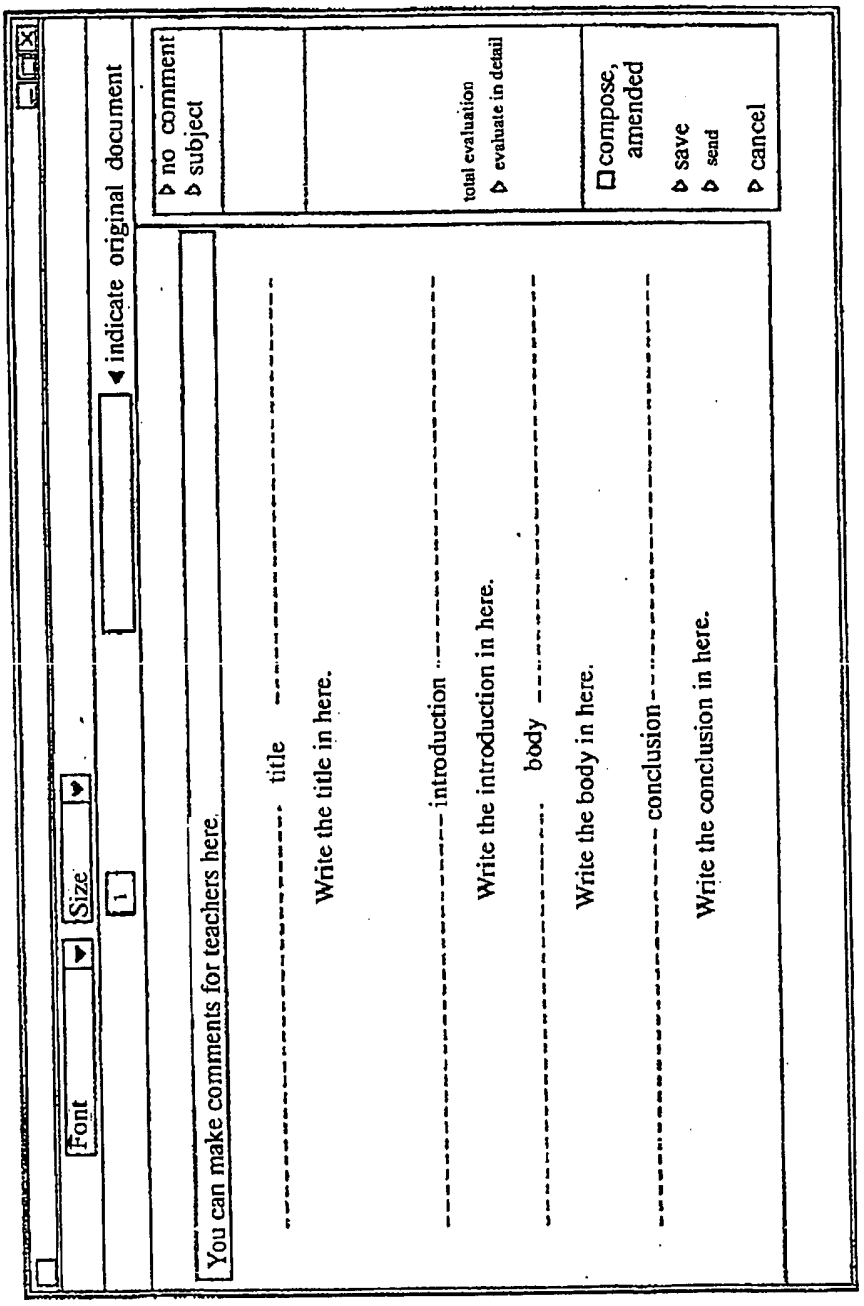

74
Font
Size
1
indicate original document
You can make comments for teachers here.
title
Write the title in here.
introduction
Write the introduction in here.
body
Write the body in here.
conclusion
Write the conclusion in here.
no comment
subject
total evaluation
evaluate in detail
compose, amended
save
send
cancel

FIG.20

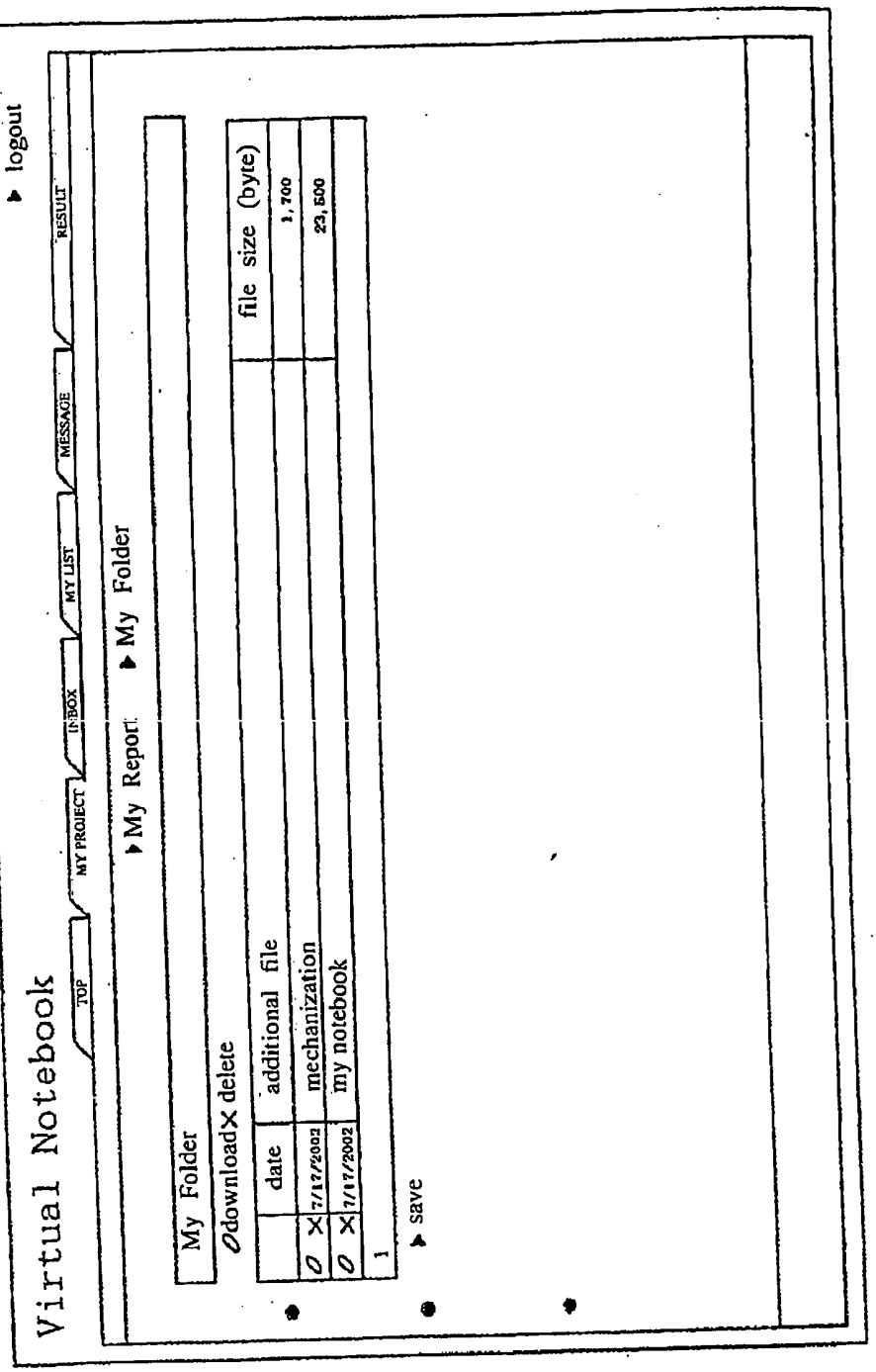

76
Virtual Notebook
logout
TOP
MY PROJECT
INBOX
MY LIST
MESSAGE
RESULT
My Report
My Folder
My Folder
download
delete
date
additional file
file size (byte)
7/17/2002
mechanization
1,700
7/17/2002
my notebook
23,500
1
save

FIG.21

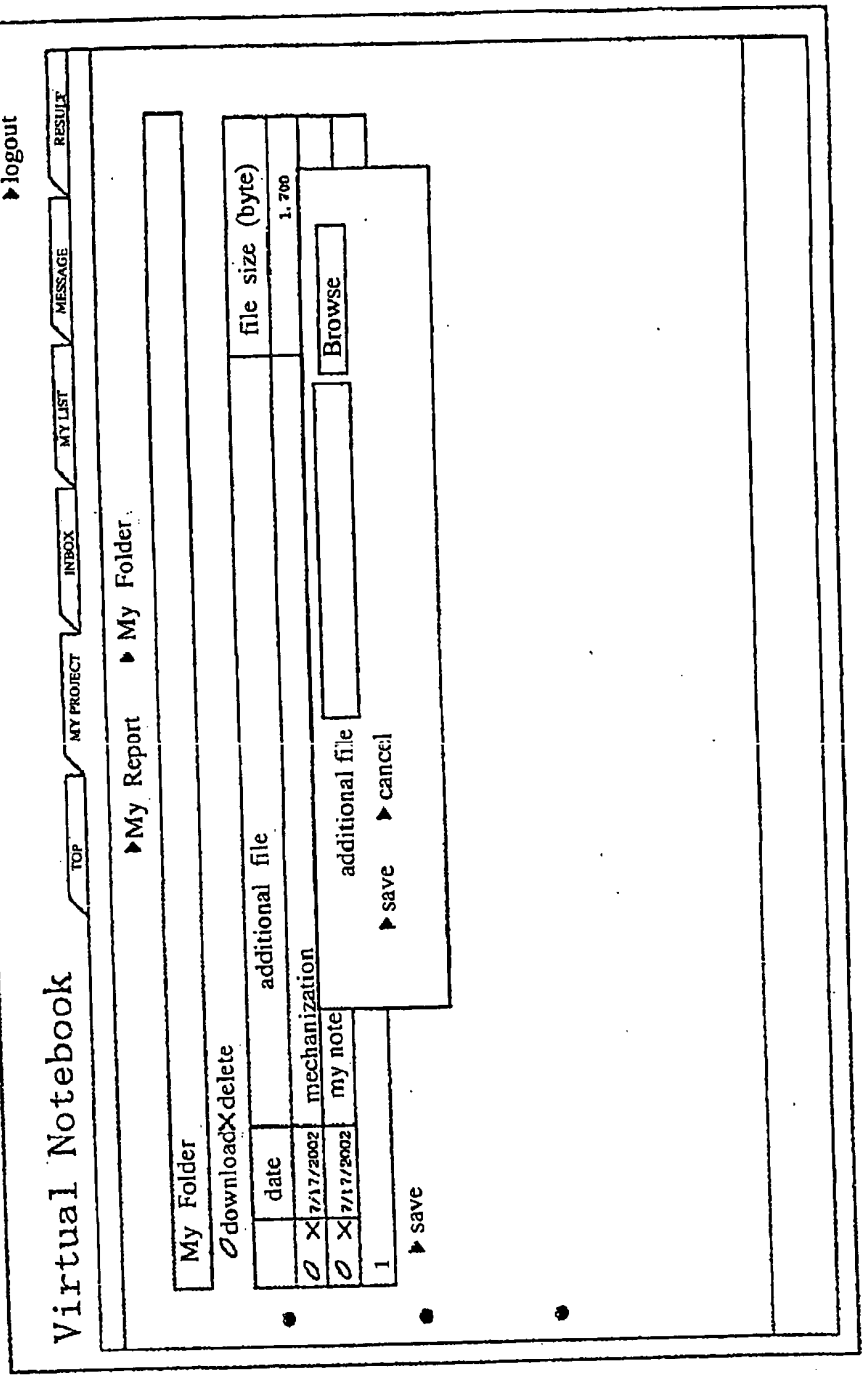

78
logout
Virtual Notebook
TOP
MY PROJECT
INBOX
MY LIST
MESSAGE
RESULT
My Report
My Folder
My Folder
download
delete
date
file size (byte)
additional file
1,700
mechanization
my note
Browse
additional file
save
cancel
save

FIG.22

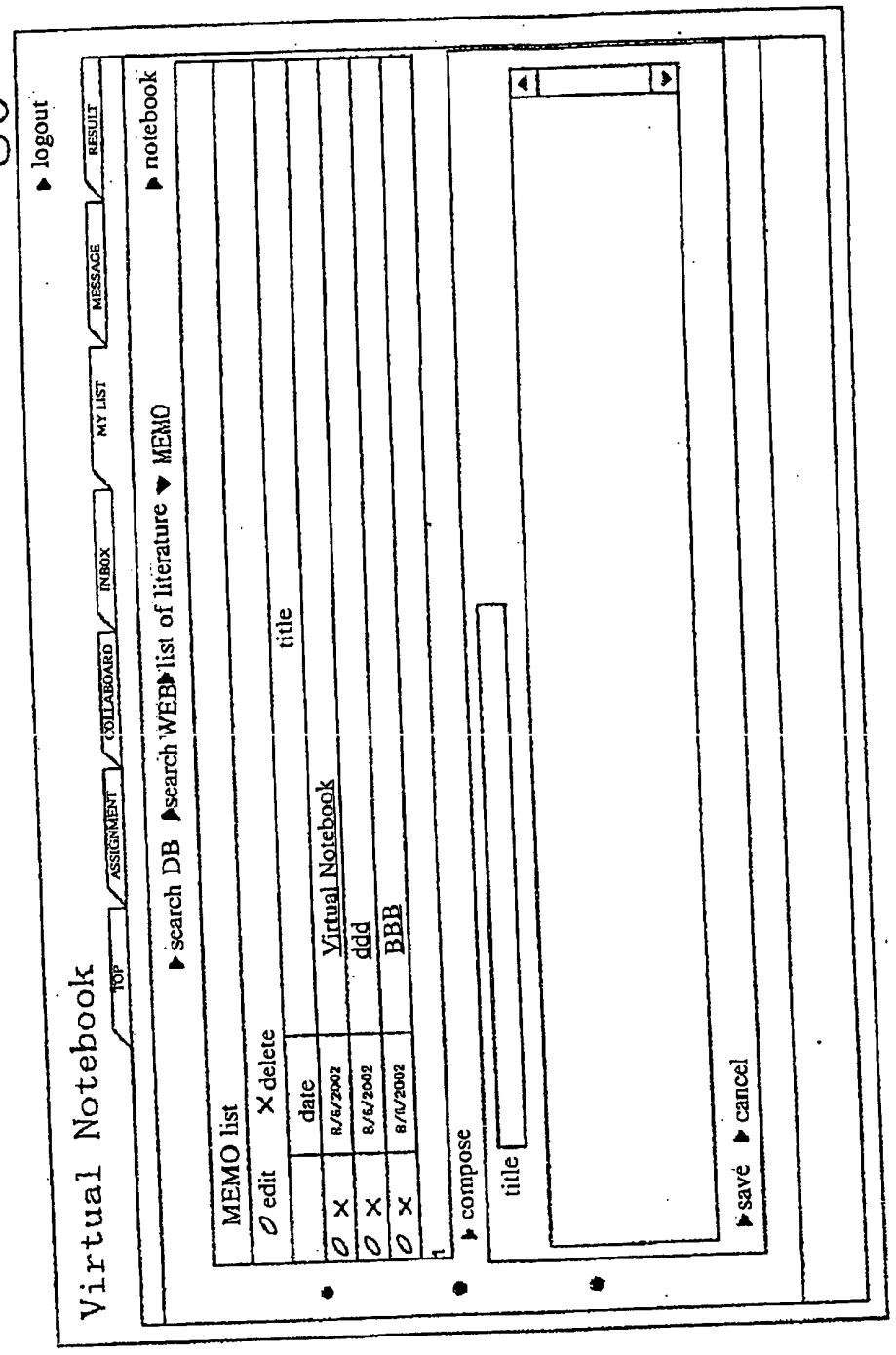

80
Virtual Notebook
logout
TOP
ASSIGNMENT
COLLABOARD
INBOX
MY LIST
MESSAGE
RESULT
notebook
search DB
search WEB
list of literature
MEMO
MEMO list
edit
delete
title
date
Virtual Notebook
8/6/2002
ddd
8/6/2002
BBB
8/6/2002
compose
title
save
cancel

FIG.23

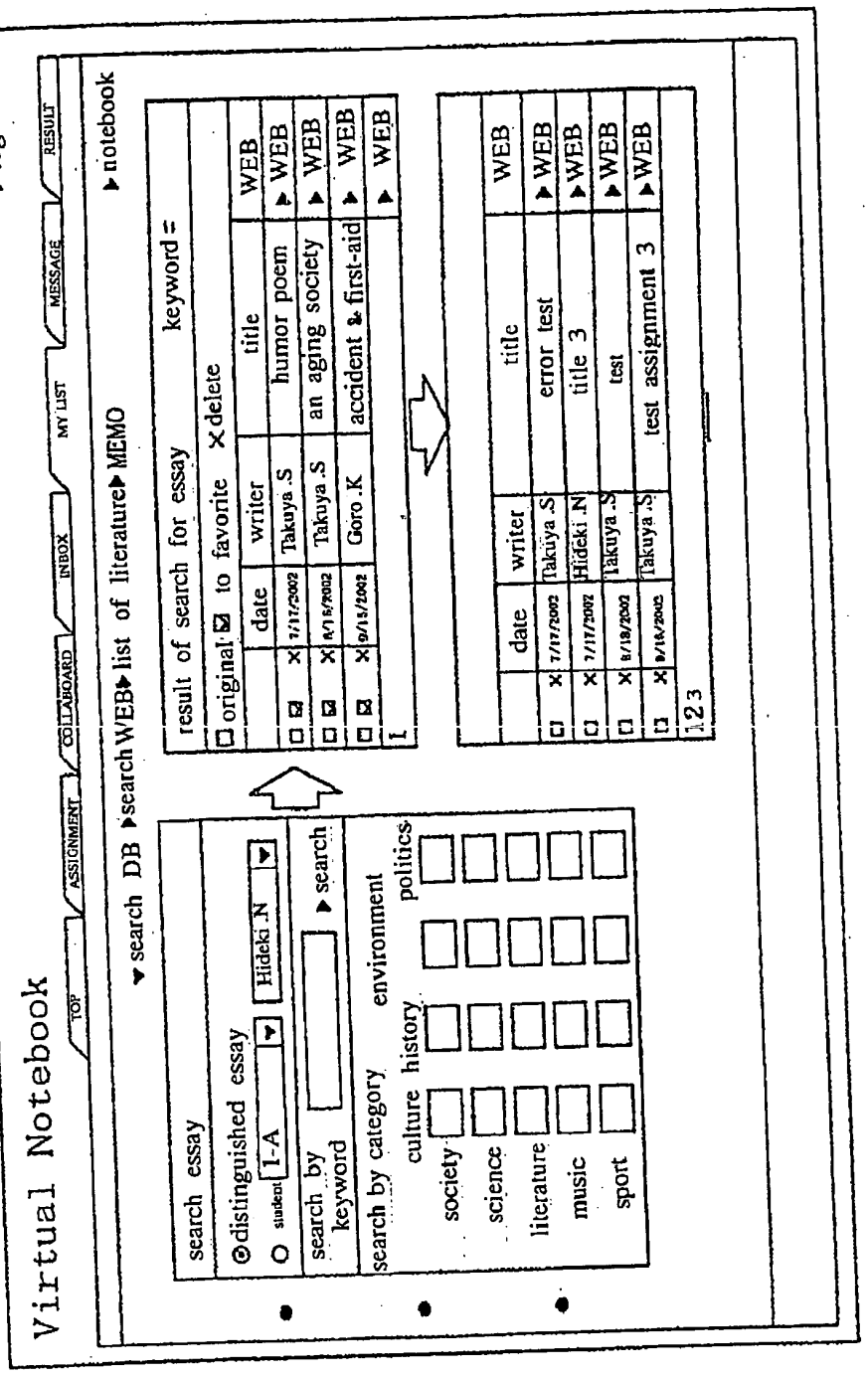

82
Virtual Notebook
logout
TOP
ASSIGNMENT
COLLABOARD
INBOX
MY LIST
MESSAGE
RESULT
notebook
search DB ▶search WEB▶list of literature▶MEMO
search essay
distinguished essay
student 1-A
Hideki .N
search by keyword
search
search by category
environment
politics
culture
history
society
science
literature
music
sport
result of search for essay
keyword =
original to favorite delete
date
writer
title
WEB
Takuya .S
humor poem
an aging society
Goro .K
accident & first-aid
error test
title 3
test
test assignment 3
123

FIG.24A

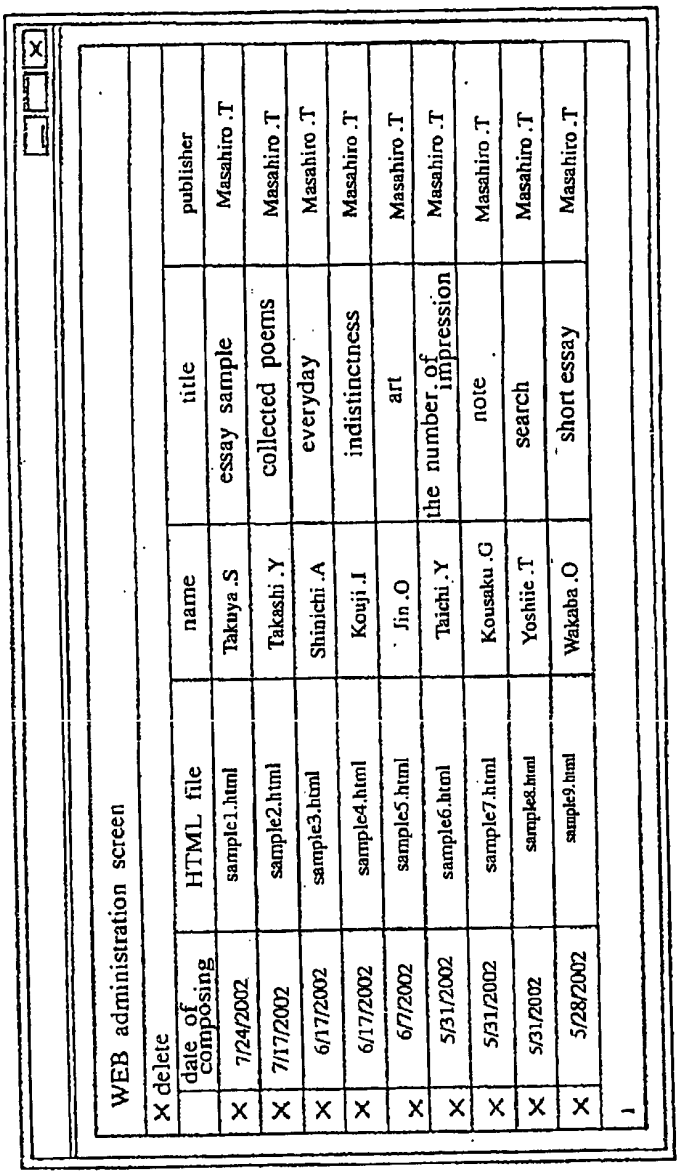

84
WEB administration screen
delete
date of composing
HTML file
name
title
publisher
7/24/2002
sample1.html
Takuya .S
essay sample
Masahiro .T
7/17/2002
sample2.html
Takashi .Y
collected poems
Masahiro .T
6/17/2002
sample3.html
Shinichi .A
everyday
Masahiro .T
6/17/2002
sample4.html
Kouji .I
indistinctness
Masahiro .T
6/7/2002
sample5.html
Jin .O
art
Masahiro .T
5/31/2002
sample6.html
Taichi .Y
the number of impression
Masahiro .T
5/31/2002
sample7.html
Kousaku .G
note
Masahiro .T
5/31/2002
sample8.html
Yoshiie .T
search
Masahiro .T
5/28/2002
sample9.html
Wakaba .O
short essay
Masahiro .T

FIG.24B

85

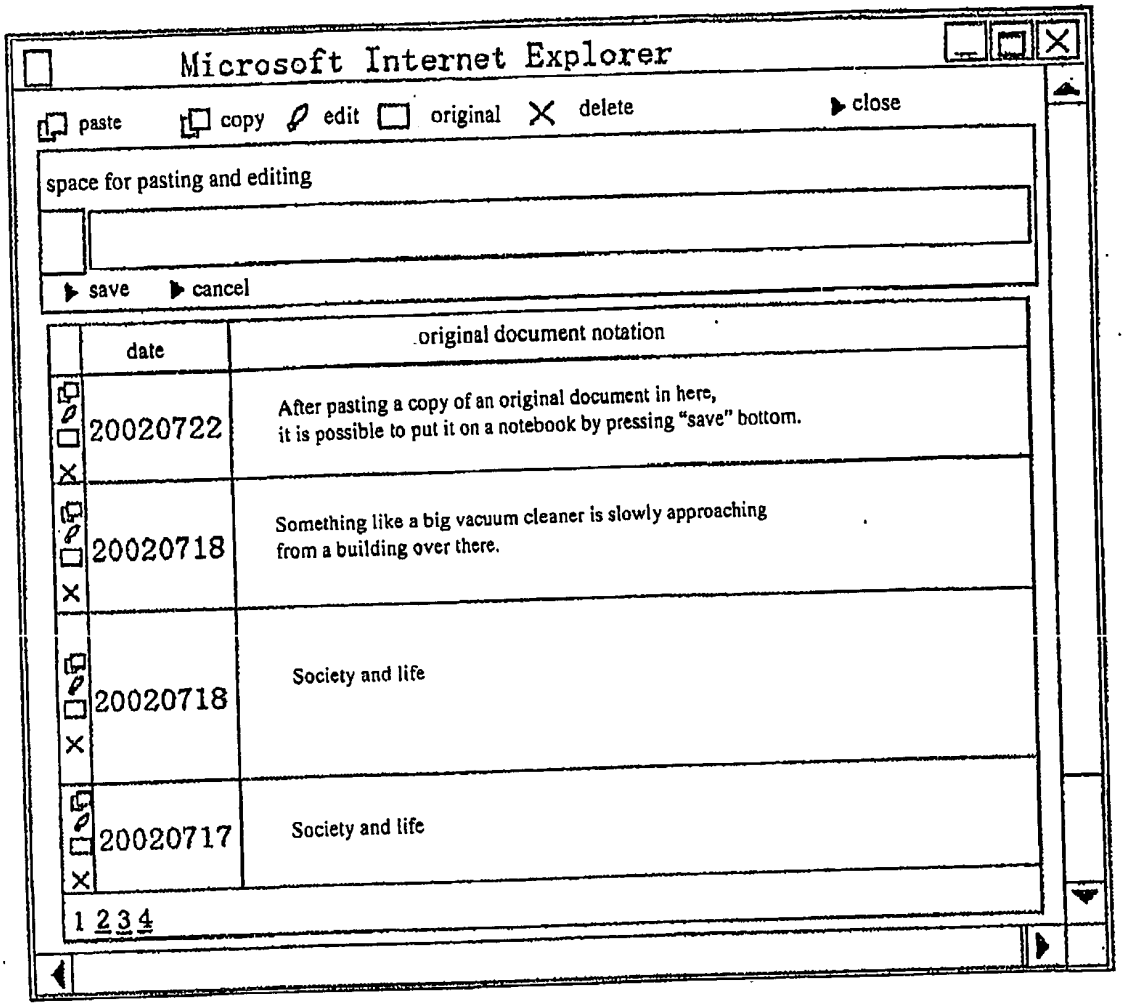

Microsoft Internet Explorer
paste
copy
edit
original
delete
close
space for pasting and editing
save
cancel
date
original document notation
20020722
After pasting a copy of an original document in here, it is possible to put it on a notebook by pressing "save" bottom.
20020718
Something like a big vacuum cleaner is slowly approaching from a building over there.
20020718
Society and life
20020717
Society and life
1 2 3 4

FIG.25

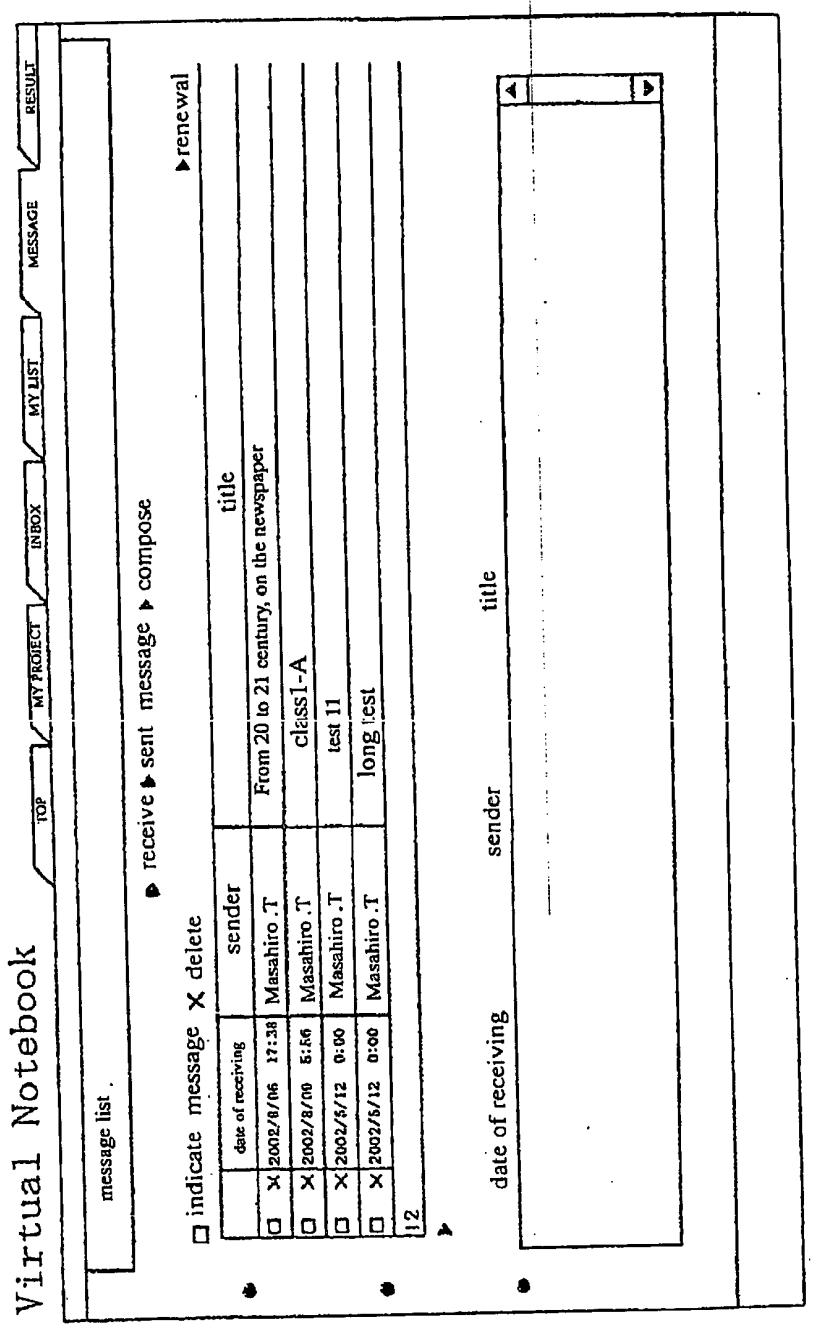
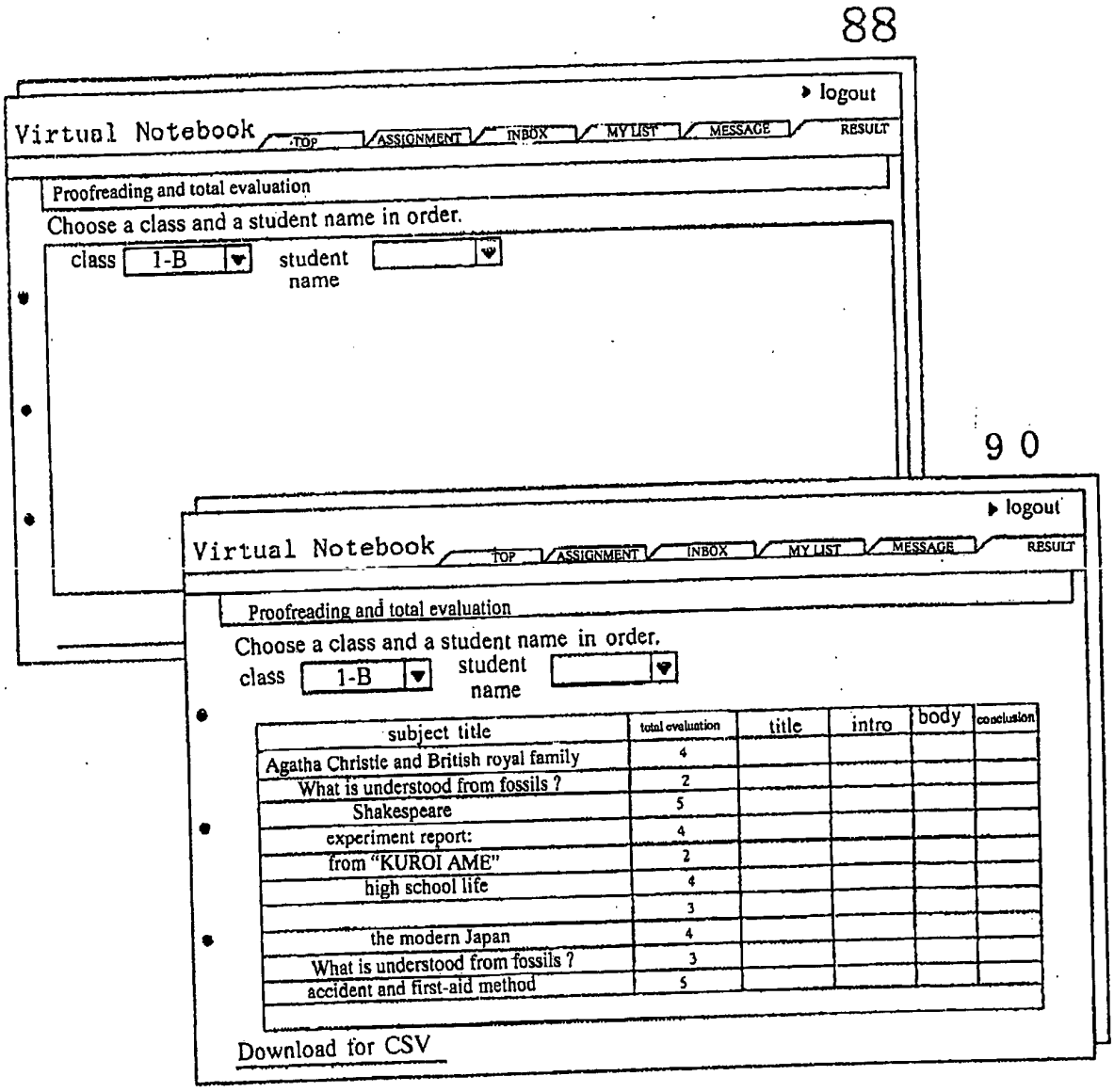

86
logout
Virtual Notebook
TOP
MY PROJECT
INBOX
MY LIST
MESSAGE
RESULT
message list
receive sent message compose
renewal
indicate message delete
date of receiving
sender
title
2002/8/06 17:38 Masahiro .T From 20 to 21 century, on the newspaper
2002/8/00 5:56 Masahiro .T class1-A
2002/5/12 0:00 Masahiro .T test 11
2002/5/12 0:00 Masahiro .T long test
12
date of receiving
sender
title

FIG.26



subject title	total evaluation	title	intro	body	conclusion
Agatha Christie and British royal family	4				
What is understood from fossils ?	2				
Shakespeare	5				
experiment report:	4				
from "KUROI AME"	2				
high school life	4				
	3				
the modern Japan	4				
What is understood from fossils ?	3				
accident and first-aid method	5				

FIG.27

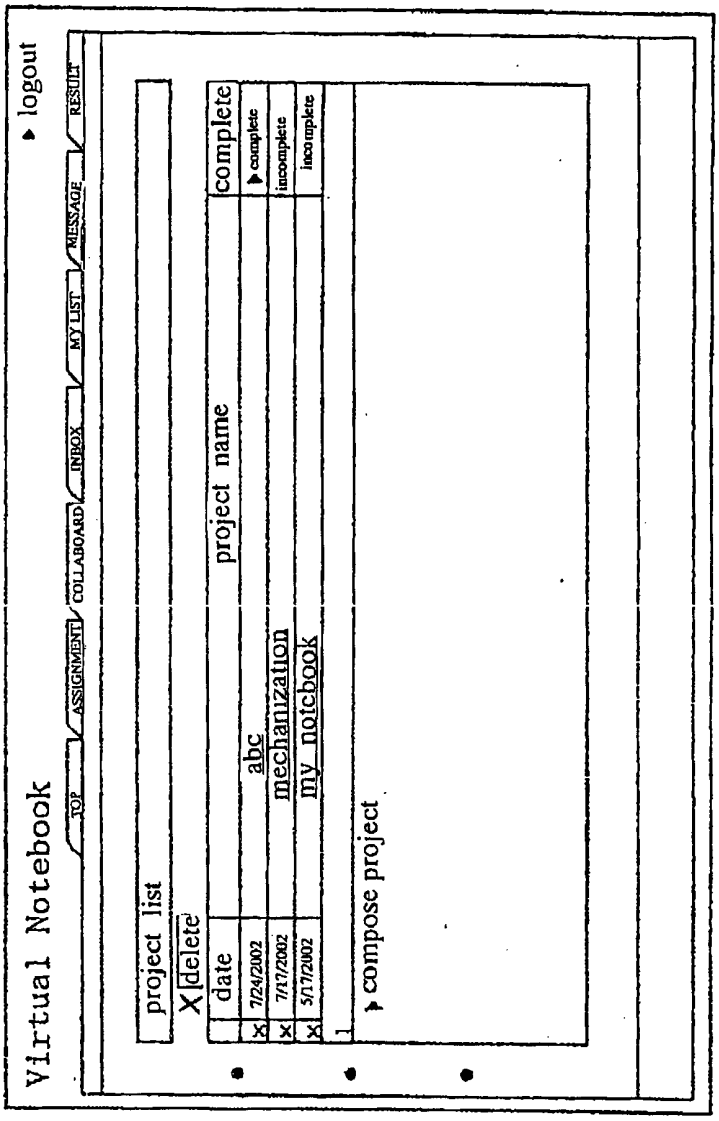

92
Virtual Notebook
logout
TOP
ASSIGNMENT
COLLABOARD
INBOX
MY LIST
MESSAGE
RESULT
project list
X delete
date
project name
complete
7/24/2002
abc
complete
7/17/2002
mechanization
incomplete
5/17/2002
my notebook
incomplete
compose project

FIG.28

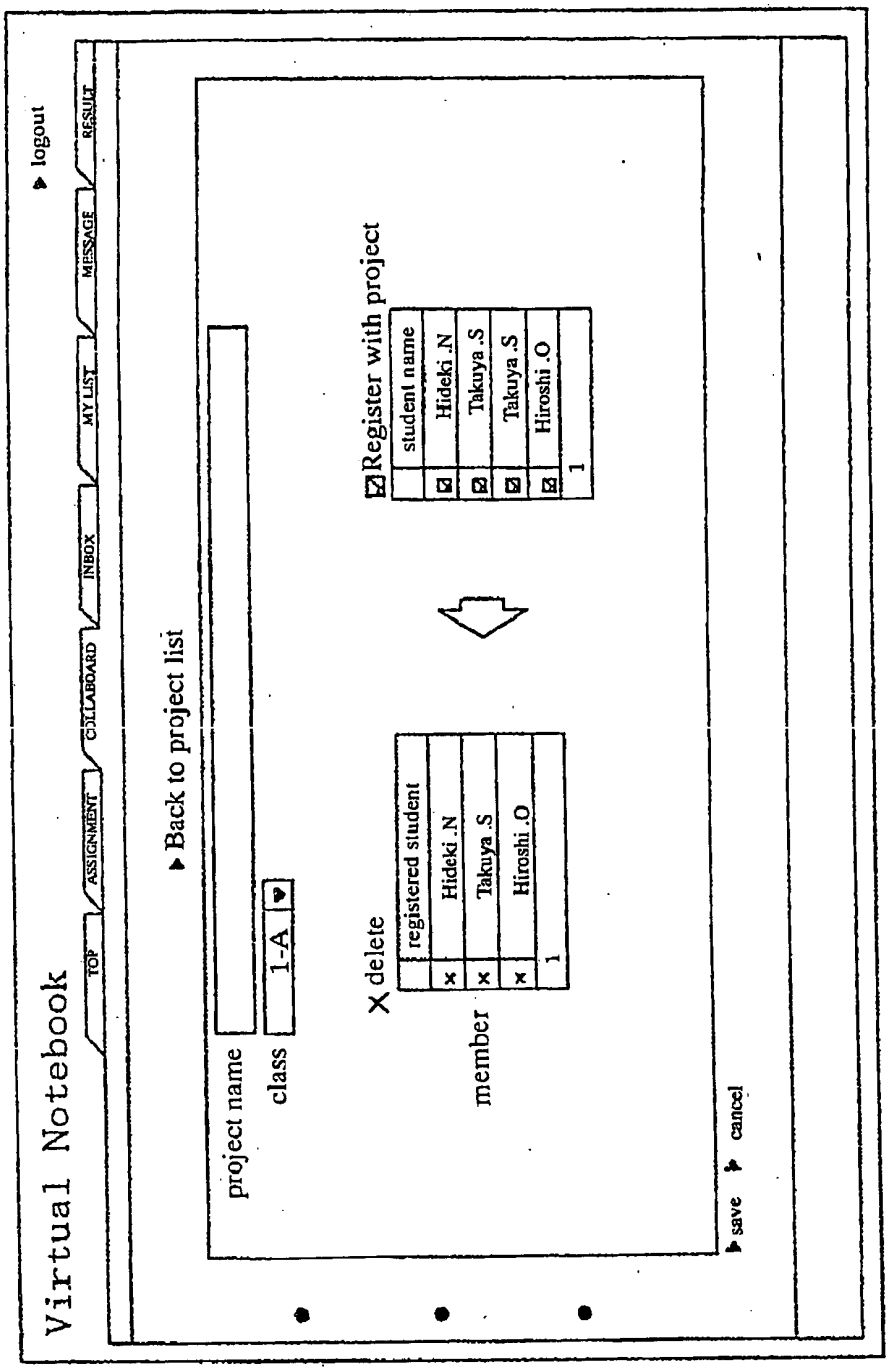

94
Virtual Notebook
TOP
ASSIGNMENT
COLLABOARD
INBOX
MY LIST
MESSAGE
RESULT
logout
Back to project list
project name
class
1-A
delete
registered student
Hideki .N
Takuya .S
Hiroshi .O
1
member
Register with project
student name
Hideki .N
Takuya .S
Takuya .S
Hiroshi .O
1
save
cancel

FIG.29

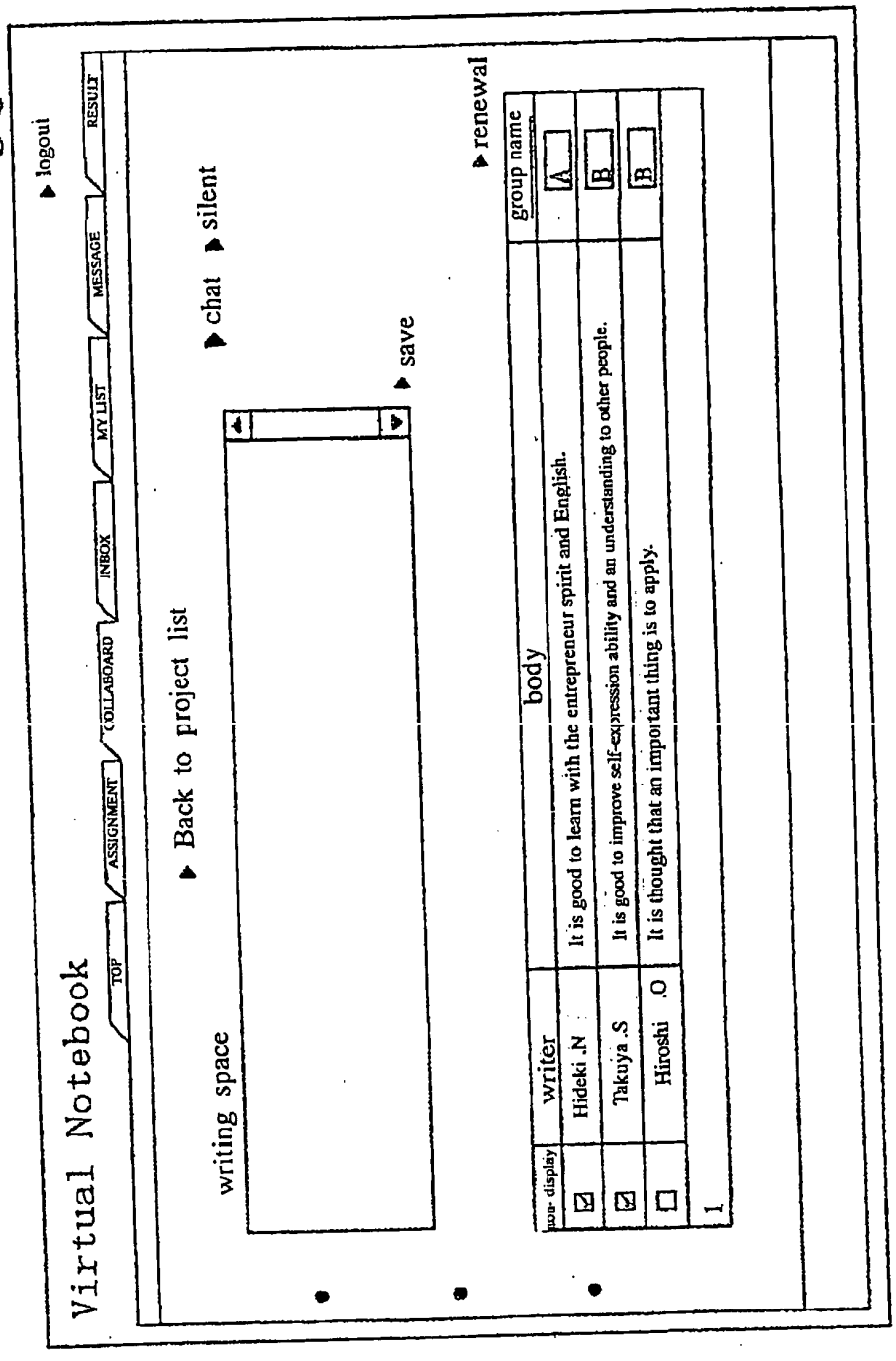
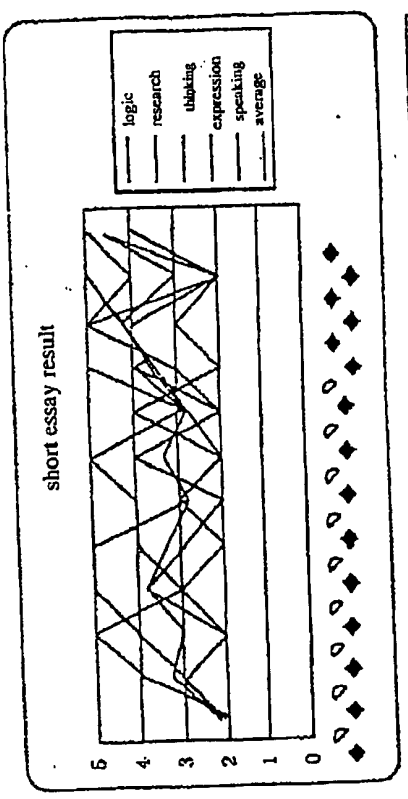
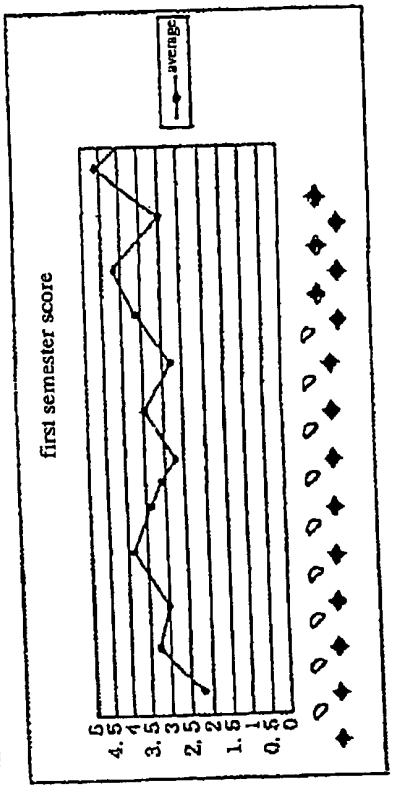

96
Virtual Notebook
logout
TOP
ASSIGNMENT
COLLABOARD
INBOX
MY LIST
MESSAGE
RESULT
Back to project list
chat
silent
save
renewal
writing space
body
group name
non- display
writer
Hideki .N
It is good to learn with the entrepreneur spirit and English.
A
Takuya .S
It is good to improve self-expression ability and an understanding to other people.
B
Hiroshi .O
It is thought that an important thing is to apply.
B
1

FIG.30

98





Grade 1, Class B
Name: Tatsuya SAITO

	logic	research	thinking	expression	speaking	average
subject C	2	2	2	2	2	2.1
subject C	3	3	3	3	4	3.2
subject C	2	2	4	2	5	3.1
subject C	4	3	5	4	3	3.3
subject C	3	2	5	3	4	3.4
subject C	2	3	3	2	4	2.8
subject C	1	2	2	4	6	3.4
subject C	2	4	3	2	3	2.8
subject C	3	2	4	4	5	3.8
subject C	6	3	1	4	6	4.2
subject	4	2	5	6	2	3
subject	6	4	6	4	5	4.5

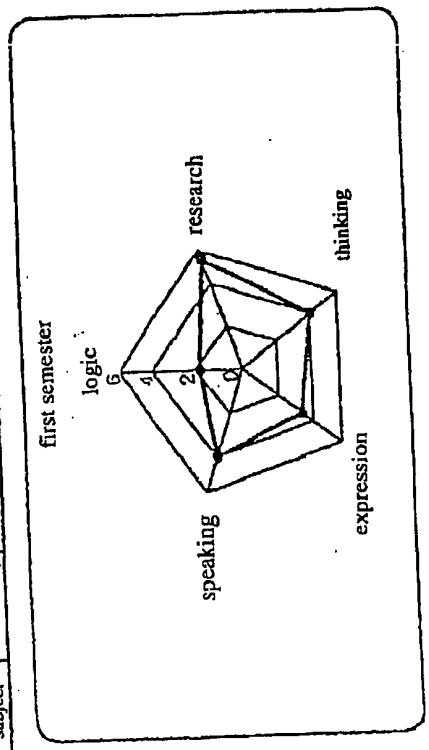


FIG.31

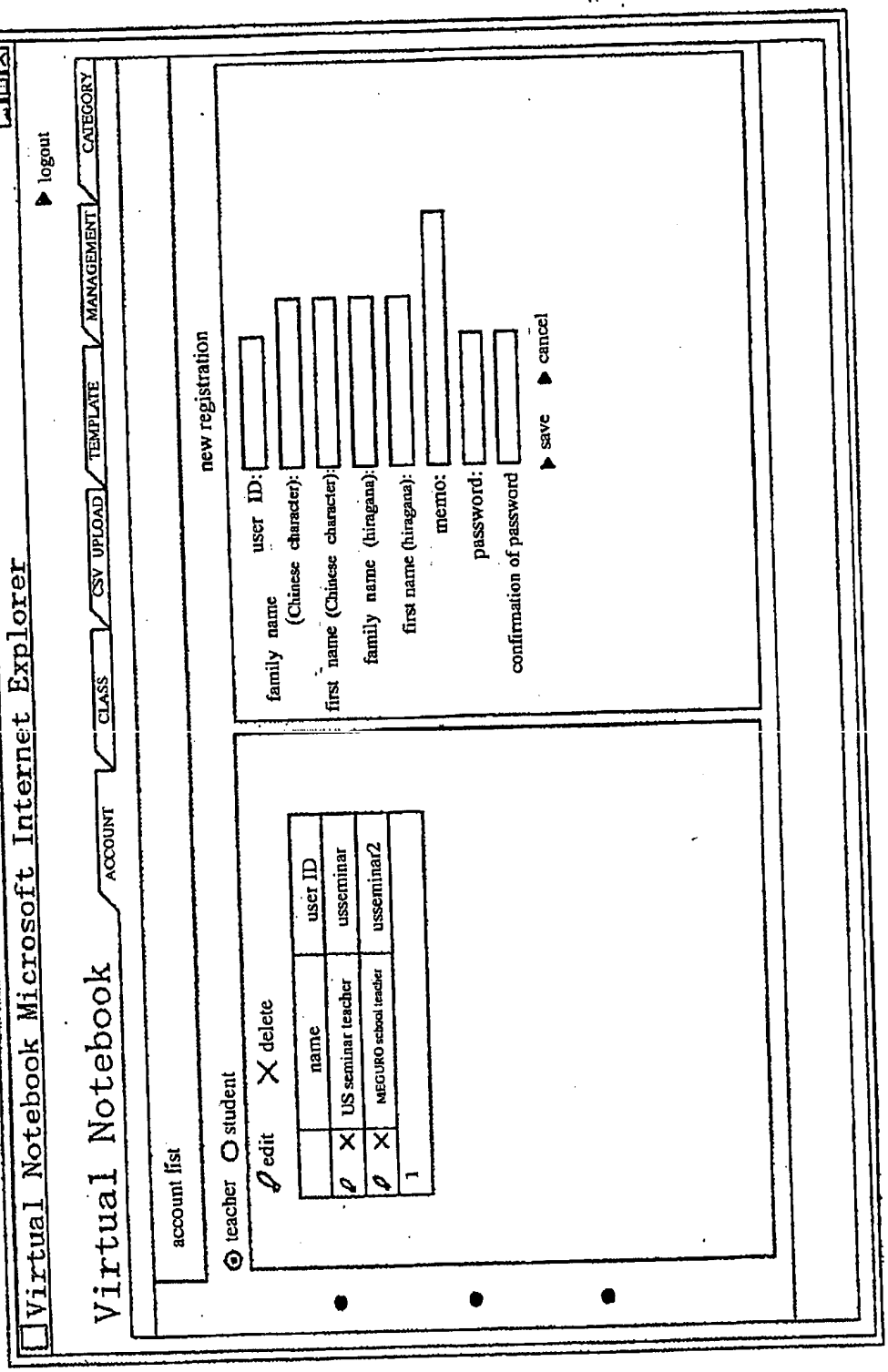

100
Virtual Notebook Microsoft Internet Explorer
Virtual Notebook
logout
ACCOUNT
CLASS
CSV UPLOAD
TEMPLATE
MANAGEMENT
CATEGORY
account list
teacher
student
edit
delete
name
user ID
US seminar teacher
ussemimar
MEGURO school teacher
ussemimar2
1
new registration
user ID:
family name (Chinese character):
first name (Chinese character):
family name (hiragana):
first name (hiragana):
memo:
password:
confirmation of password
save
cancel

FIG.32

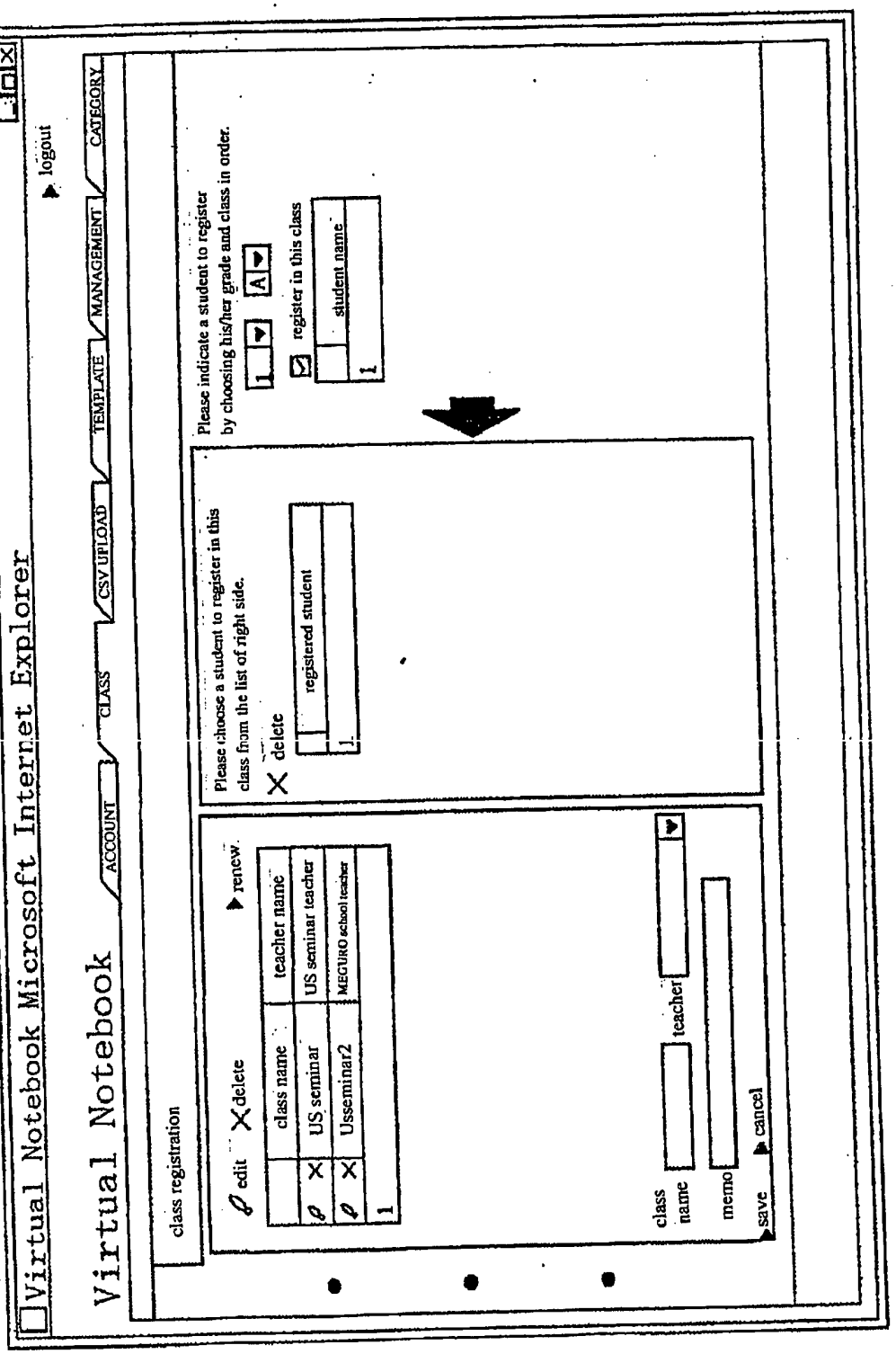
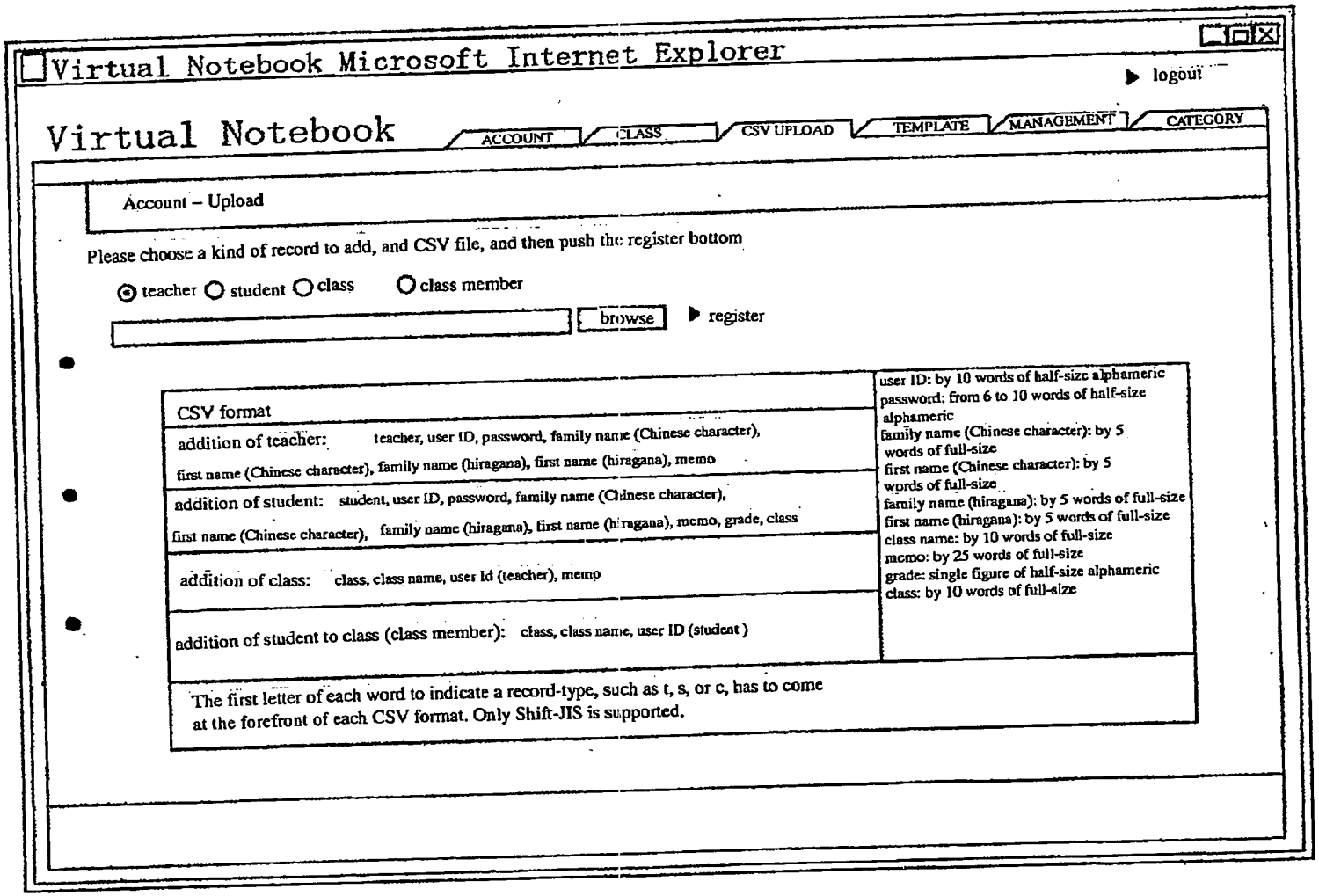

102
Virtual Notebook Microsoft Internet Explorer
Virtual Notebook
logout
ACCOUNT
CLASS
CSV UPLOAD
TEMPLATE
MANAGEMENT
CATEGORY
class registration
edit
delete
renew
class name
teacher name
US seminar
US seminar teacher
Usseminar2
MEGURO school teacher
1
Please choose a student to register in this class from the list of right side.
delete
registered student
1
Please indicate a student to register by choosing his/her grade and class in order.
1
A
register in this class
student name
1
class name
teacher
memo
save
cancel

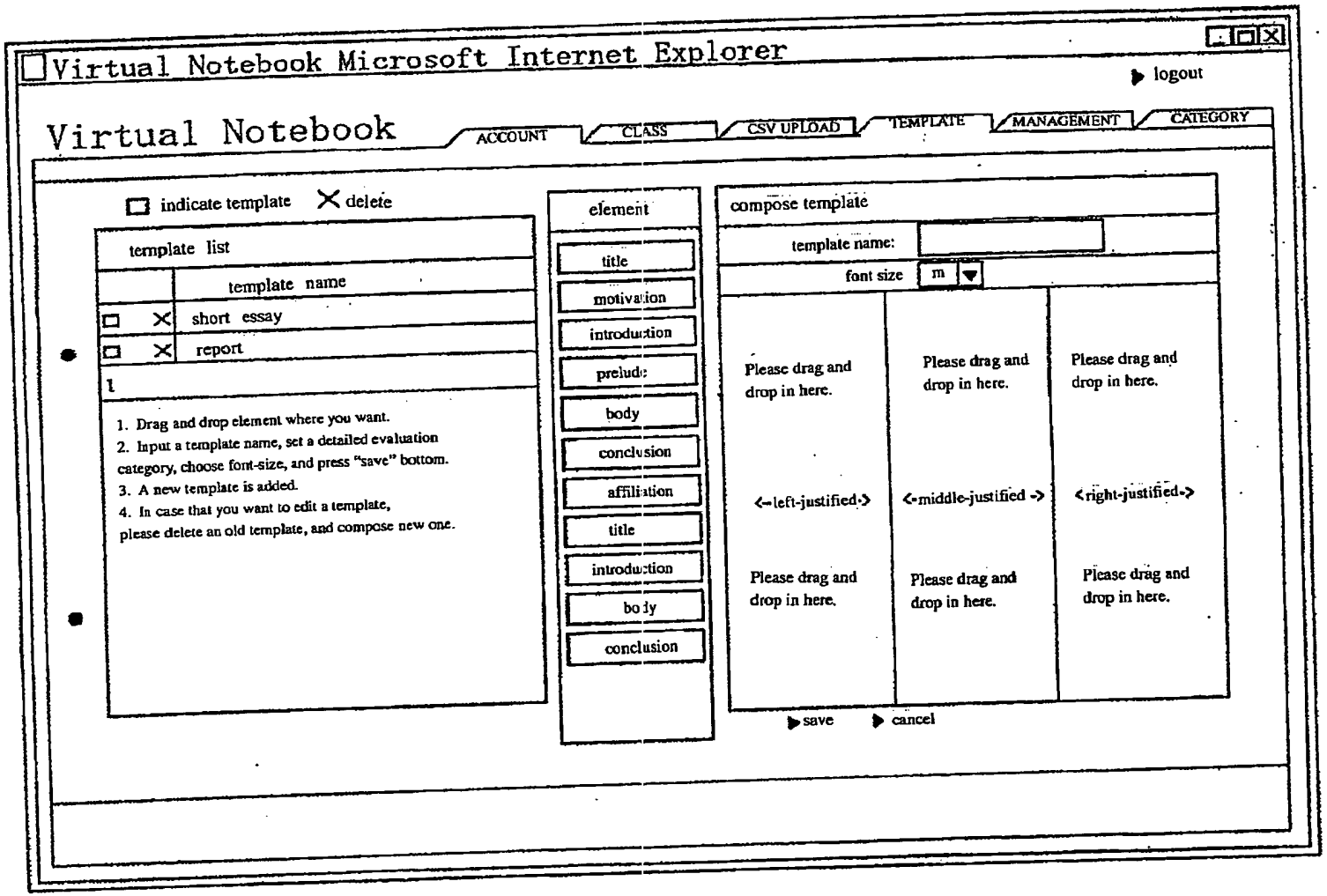
FIG.33

104



'03 10/07 TUE 04:00 FAX 03 3402 4660
ハスダ コクサイトッキョジ ムショ
035/038
037

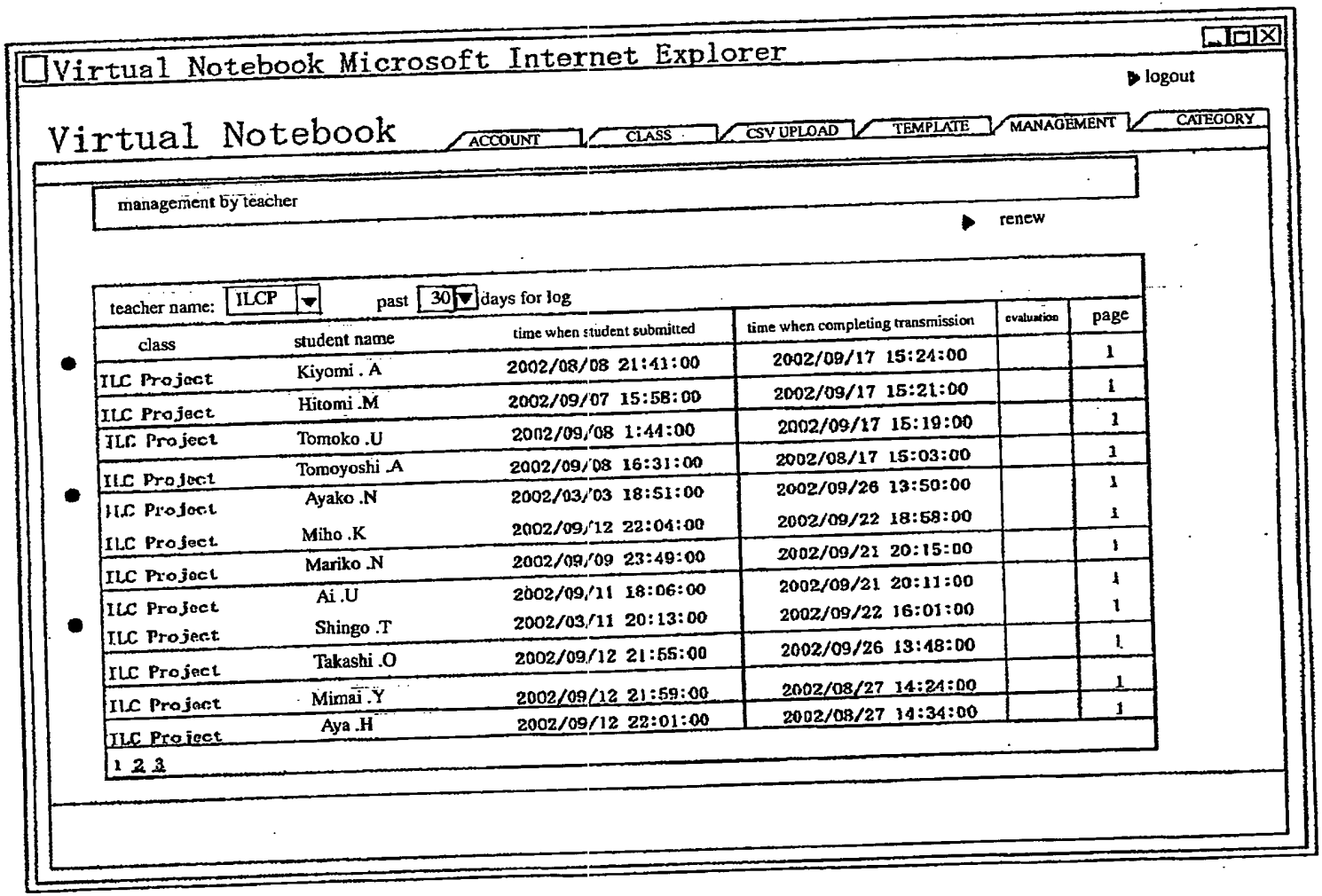
FIG.34



'03 10/07 TUE 04:01 FAX 03 3402 4660 ハタノ コクサイトッキョ ムシヨ
36/38
038

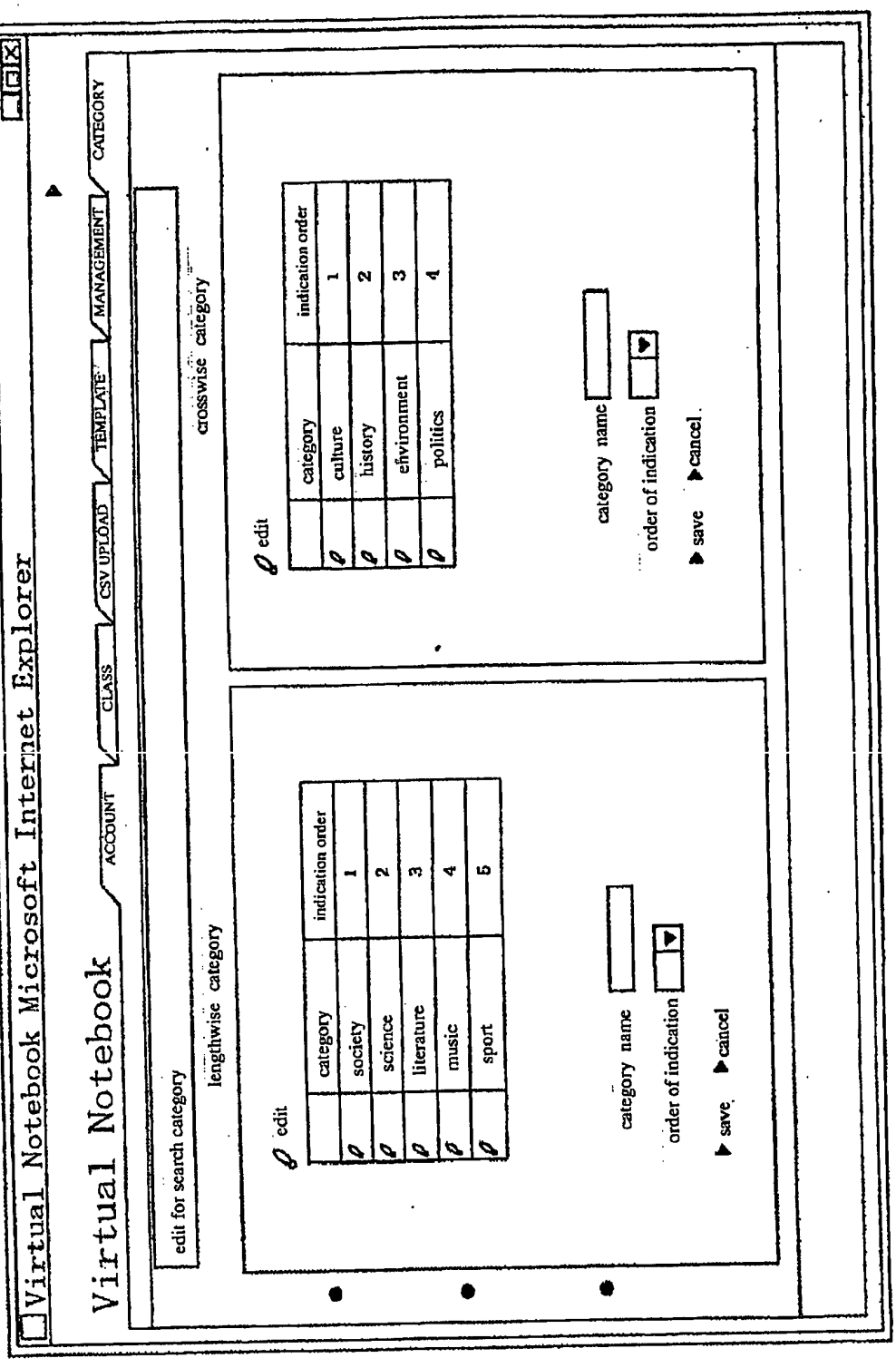
FIG.35

108



'03 10/07 TUE 04:02 FAX 03 3402 4660 ハマダ ユウサイトッキョジ ムショ 039
37/38

FIG.36


110
Virtual Notebook Microsoft Internet Explorer
Virtual Notebook
ACCOUNT
CLASS
CSV UPLOAD
TEMPLATE
MANAGEMENT
CATEGORY
edit for search category
lengthwise category
edit
category
indication order
society 1
science 2
literature 3
music 4
sport 5
category name
order of indication
save
cancel
crosswise category
edit
category
indication order
culture 1
history 2
environment 3
politics 4
category name
order of indication
save
cancel